



Industrial ^{Tools}



More Than



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100 YEARS OF INNOVATION

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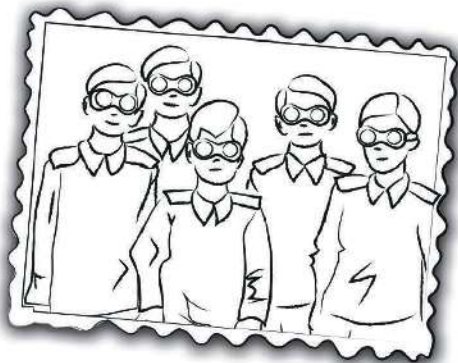
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Unless specified all inlet threads are BSP or NPT dependent of market

100

Desoutter 

YEARS OF INNOVATION



In Desoutter's earliest days one hundred years ago, who would have imagined that it would become today's global leader in its sector? How many industrial companies can claim, like Desoutter, to have weathered the years with such success, never forgetting the values that have formed the foundation of their prosperity?

This one century of existence would not have been possible without that drive for innovation that characterises our company, without that perpetual determination to evolve along with the changing world around us, always acting with vision to anticipate the needs of tomorrow.

This longevity is also the fruit of dedicated devotion on the part of all those employees who have shared their ideas, their skills and their technological expertise in order to turn that thrust for innovation into reality and to give it meaning.

But this history is also - and primarily - that of our customers and partners who remain the sole reason for our existence. It is for them and alongside them that we strive for perfection day after day, and our intention has been to pay tribute to them in the name of this shared success by compiling some of their testimonials in this book.

Together we have written the beginning of a great story. And together we will continue to move forward, to look to the future with the same ambition: always to offer "more than productivity".



Philippe Artzet,
President

Foundation of Desoutter



First Duralumin artificial limbs are created

1914



1918
Foundation of Georges Renault



Spare parts for portable pneumatic tools are manufactured



1930
First flight of the Desoutter Mk.I



1960
Patents approved for torque controlled angle wrench



1977
Scan Rotor is founded
SCANROTOR



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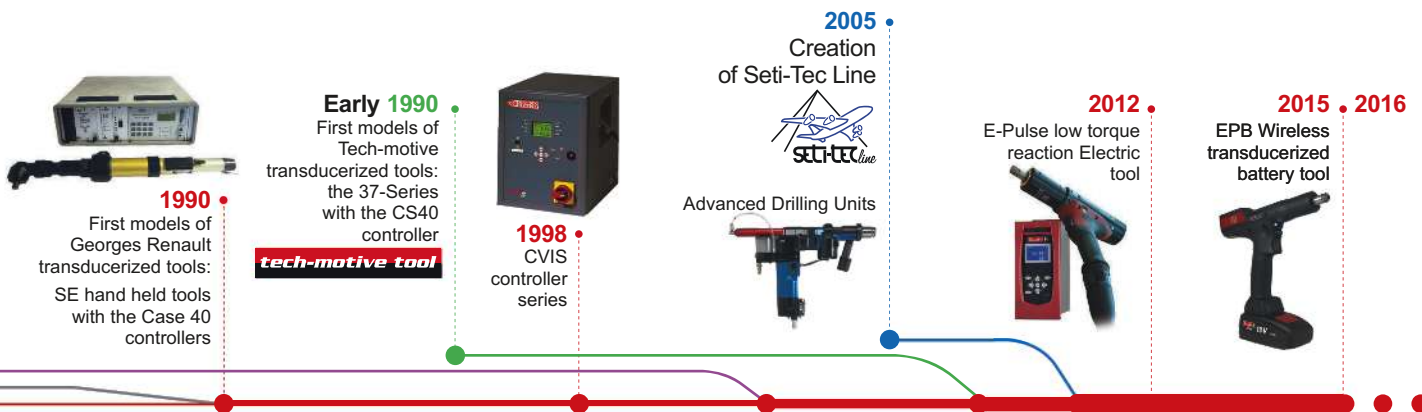
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Find more on what customers tell
about their Desoutter's customer experience in the
Desoutter's anniversary book!



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More Than Productivity

Desoutter is your single source of electric and pneumatic tool solutions,

covering a wide range of assembly and manufacturing processes in the motor vehicle, aerospace, general industry and light assembly sectors

Desoutter has a long history of producing high-quality industrial tools. Today, the scope of the activity combines a global offering with a widespread local presence

The reason behind this approach is simple: our customers, who include many of the world's largest and most successful manufacturers, want worldwide access to a global portfolio of assembly and manufacturing solutions

With Desoutter, we provide you more than productivity



FOCUSED ON YOUR OBJECTIVES...

Industry hates risk. And so do we. So we work with you to eliminate cost, quality and performance risks from your production lines.

Optimize your investments

Your production lines are some of your company's most important investments. The quality and performance of Desoutter industrial tool solutions enable you to optimize your return on investments by producing more in the same cycle time. Our airline systems, for instance, keep our pneumatic nutrunners spinning at exactly the right speed and power, saving you precious seconds for each operation.

Raise productivity

Good ergonomics makes good economic sense. Not only are Desoutter tools designed to reduce operator stress factors, such as vibration and noise, they also take into account the relationship between the operator, the tool and the process. Our experts work with you to obtain long-term gains in productivity and safety, while improving cost, quality and cycle times.



GLOBAL SOLUTIONS YOU CAN BUILD ON...

We know that finding the best solution is about much more than just picking a new tool. That is why we start every project by opening our ears, not our catalog.

Process optimization

Producing high-quality products requires high-quality processes. That is why many of the world's major motor vehicle, aerospace and appliance manufacturers rely on Desoutter. Each Desoutter solution is tailored to your exact needs. Our experts propose solutions that deliver a quantifiable return on investment, whether in terms of productivity improvements, quality gains or safety improvements.

Worldwide coverage

Desoutter combines global reach with local expertise. To ensure the smooth running of Desoutter solutions in your factories, all our local teams are trained to the same high level of expertise and service. Each team is in direct contact with the Desoutter area application and customer care center for your region. Together they ensure that solutions are implemented to worldwide standards, but in compliance with local criteria.



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EXPERTISE YOU CAN GROW ON...

From motors vehicles to appliances, planes to construction machines, electronics to energy – there is a Desoutter air powered and electric tool solution for you.



PEACE OF MIND YOU CAN COUNT ON...

Our support services keep your processes operating at maximum levels – and leave you to focus on your core business.

Covering all segments

Motor vehicle industry

A wide range of tool solutions for vehicle makers, tier one suppliers and linebuilders. Solutions include fixed systems for powertrain assembly and handheld solutions for final assembly processes.

Aerospace

A long history of providing tools solutions to aerospace companies. We cover a wide range of their needs, from airframe and engine construction to system assembly.

Customized solutions

Our Applications Centers are the symbol of our renowned flexibility. As comprehensive as our catalog is, we know that sometimes you need a tailored solution. Our Application Center engineers adapt existing solutions to your requirements and develop your own solutions. They are experts at developing Six Sigma tools and error proofing.

Genuine Desoutter parts

Genuine Desoutter parts are the only parts designed and engineered specifically for Desoutter tools. They ensure that our tools always operate at their best. Moreover, for a lifetime of satisfaction, we always use genuine Desoutter spare parts when performing maintenance and repairs.

Proactive logistics

When your operations are global, it is essential that your logistics are too. Our centralized inventory and warehousing system is highly responsive. We proactively manage our production to ensure a reliable supply of the products and parts you need. The majority of the solutions in our catalog can be shipped to you in three days, no matter where you are located. Next-day service is available in many markets.



Service solutions - FIT Concept

For all your needs



REPAIR FAST AND HIGH QUALITY REPAIRS



*just one invoice per month.



- Shorter repair turnaround time
- High quality repair
- Reduce on Administrative time
- Efficiency on spare parts stock
- Better MTBF



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PREVENTIVE MAINTENANCE

QUALITY ASSURANCE AT LOWEST COST



- Assembly process more reliable
- Avoid escalating quality costs
- Minimize production losses
- Reduce the repair costs
- Predictable maintenance budget



PEACE OF MIND

KEEP THE FOCUS ON YOUR CORE BUSINESS



TO OUR CUSTOMERS

- No concerns about tools
- Fixed budget no surprises



ON-SITE SUPPORT

SUPERIOR SERVICE AT YOUR CONVENIENCE

- Process optimisation →
- Emergency calls →
- Preventive Maintenance →
- Repair →
- Calibration →
- Training →
- Communication network →



- Quick response time
- Reduction in the equipment downtime
- Highly qualified team at your disposal
- Optimize the reliability of your processes
- Reduction of the total cost of ownership



BENEFITS

- Increase customers productivity
- One supplier accountable for tools management
- Ensure tools reliability and assembly quality
- Minimise production stoppage and consequential losses
- Increase tools availability
- Quicker response and shorter turnaround time
- Production line support
- Costs reduction on:
 - quality: reworks, warranty and recalls
 - logistics process
 - administration (one invoice per month)
- Controlled budget during the year
- Solutions including backup tools
- Monthly KPIs report - definition of improvements plan
- Customised solutions to meet customer



CONSULT

our Service catalogue, we have much more BENEFITS to you!

www.desouttertools.com



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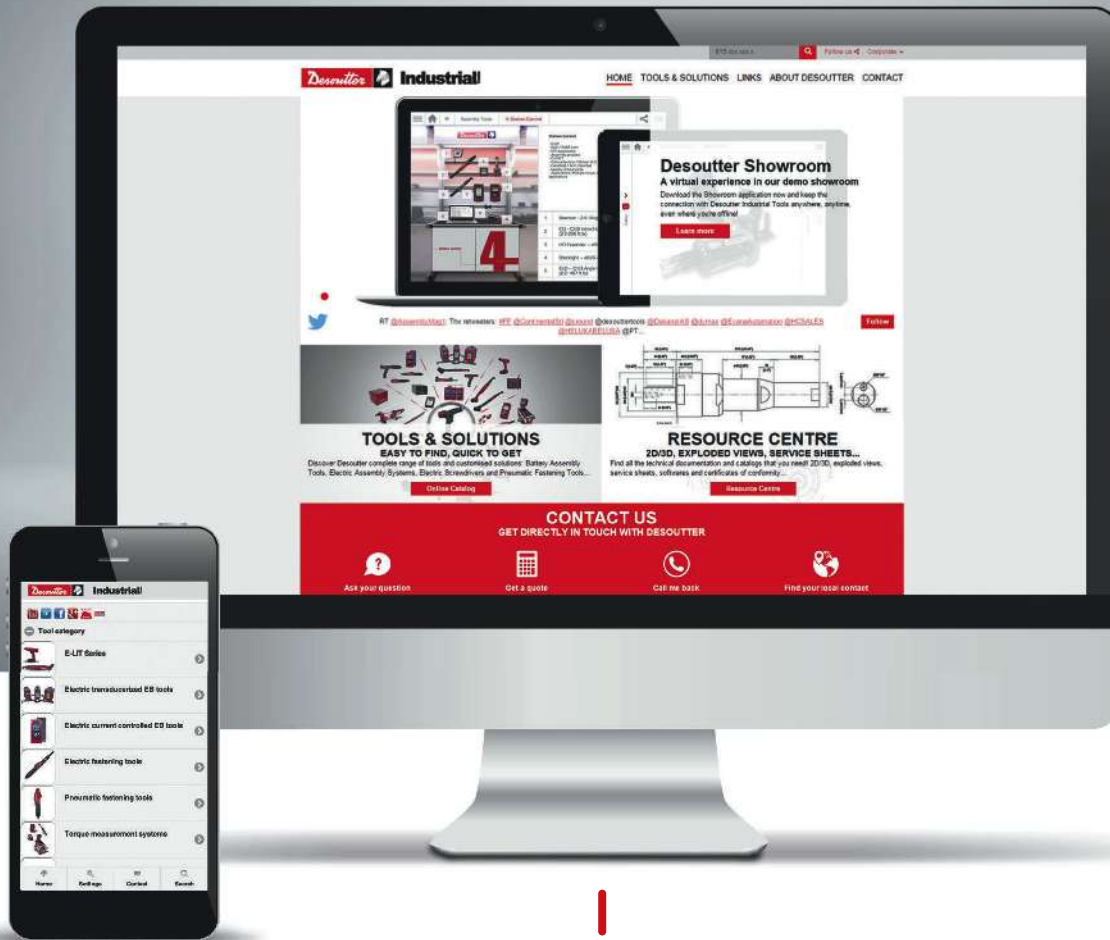
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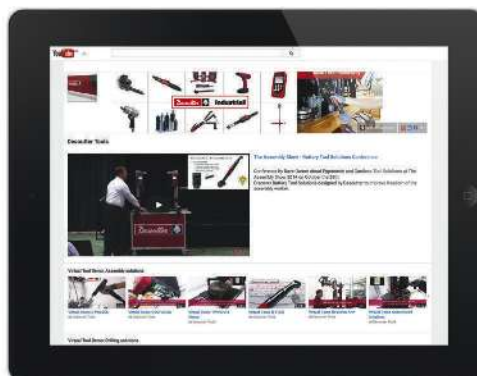




EASY TO FIND
QUICK TO GET

Product brochures, exploded views,
certificates of conformity, CAD files...
Find all the Technical documentation that you need!

GET TO KNOW DESOUTTER INDUSTRIAL TOOLS
from another perspective and stay in touch with us!



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Assembly Tools - Selection Guide

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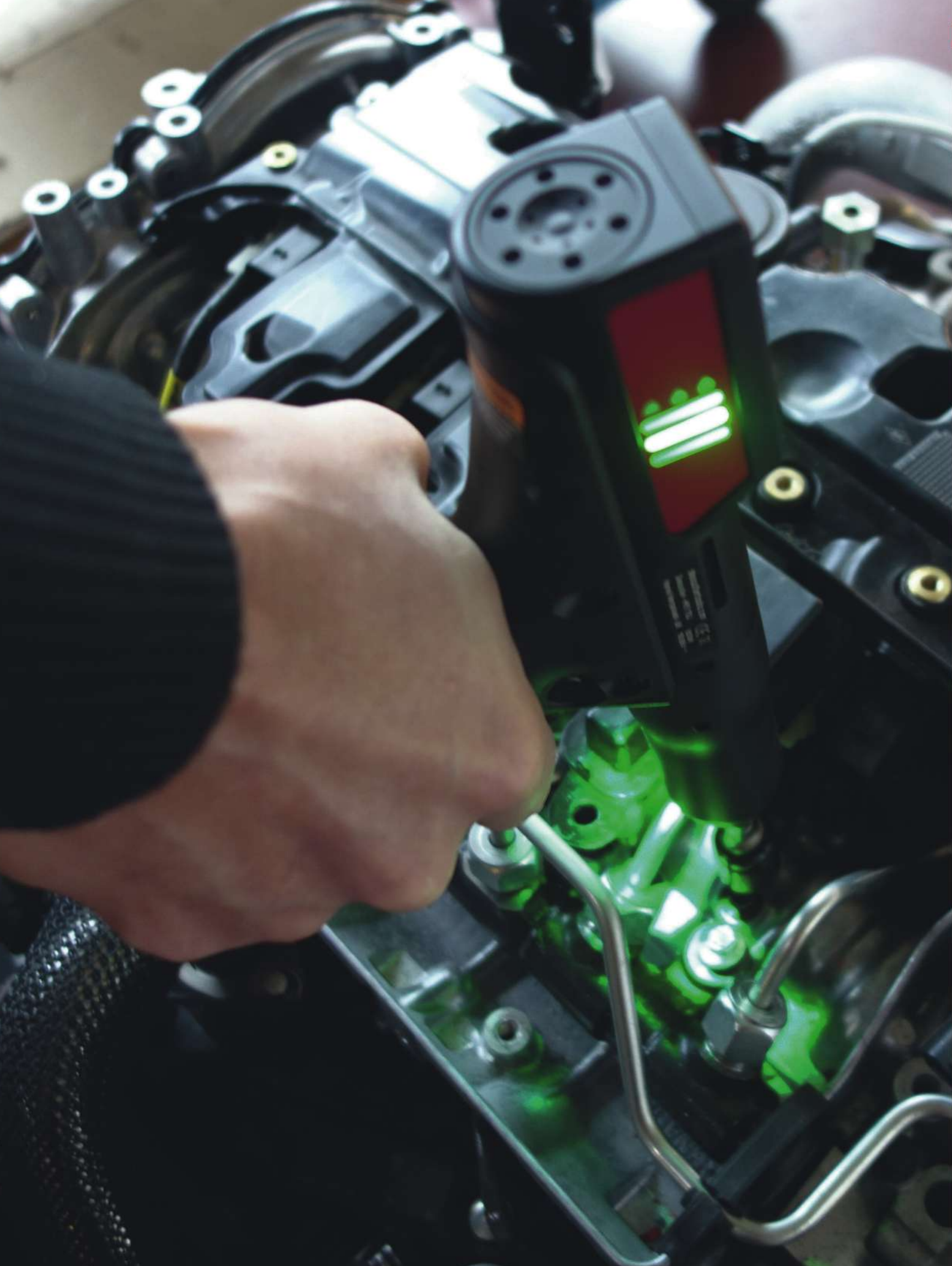
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E-LIT Series - Optimize your performance

Clutch Battery Tool range



desoutter.info/E-LIT

FOCUS



3 MODELS TO CHOOSE FROM	 BRUSHLESS MOTOR	 LI-ION BATTERY	 E-LIT CONFIG SOFTWARE	 SPEED MODULE	 E-LIT BOX
E-LIT PLUS ELECTRONIC BRUSHLESS (ELB) PISTOL AND ANGLE 	✓	✓	✓		
E-LIT PREMIUM ELECTRONIC BRUSHLESS SPEED CONTROL (ELS) PISTOL AND ANGLE 	✓	✓	✓	✓	
E-LIT WIRELESS COMMUNICATION WITH E-LIT BOX (ELC) PISTOL AND ANGLE 	✓	✓	✓	✓	✓



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Tool management device

Speed setting
For ELS and ELC models

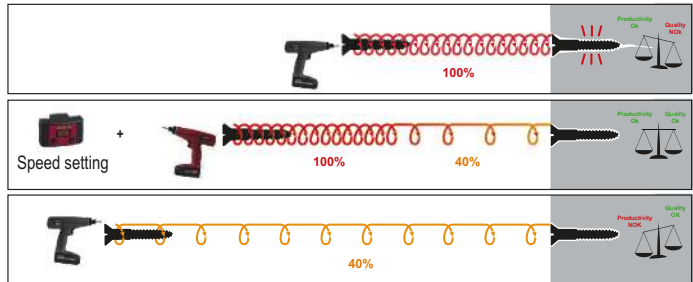
Two speed setting easily controlled by external module



Everything needed to optimize your assembly process

Guarantee quality and keep high productivity

- Decrease final speed to ensure tightening quality
- Avoid quality defects in your final product
- Decrease starting speed to facilitate bolt engagement



E-LIT CONFIG software

Manage your E-LIT tools

- Save your E-LIT tool setting
- Use your own tool ID
- Upload saved setting on new tools
- Go further on the setting possibility



E-LIT BOX

For Poka-Yoke Application

FOCUS

Wireless communication

IP54

Maintenance alert

Safe report

WIRELESS SYSTEM
802-15-4 Standard

1 tool — 1 box — E-LIT BOX — I/O Power — PLC

Keep the pairing if box Off

Fast to connect

Wireless visual feedback



EASY PAIRING PROCESS

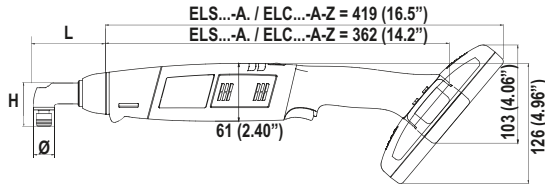
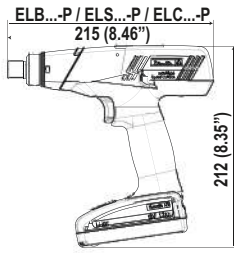
- 1- Trigg input 1 and 2 (by PLC or simulator)
- 2- Power on the BOX



- 3- Press both, tool trigger and reverse, while inserting battery pack
- 4- Pairing completed



Accessories



MODEL	H		L		Ø	
	mm	in	mm	in	mm	in
ELS7 / ELC7	45.5	1.79	75.7	2.98	22	0.87
ELS15 / ELC15	41.5	1.63	75.7	2.98	22	0.87
ELS30 / ELC30	45.5	1.79	134.2	5.28	28	1.10
ELS45 / ELC45	51.1	2.01	144.6	5.69	35	1.38

OPTIONAL ACCESSORIES

ITEM		PISTOL	ANGLE HEAD 18V	ANGLE HEAD 36V	ELC TOOLS	PART NO.
Battery type						
1	Li-ion Battery 18V 2.1 Ah - 0.35 kg (0.77lb)	✓	✓		✓	615 812 099 0
2	Li-ion Battery 18V 4.2 Ah - 0.60 kg (1.32lb)	✓	✓		✓	615 812 100 0
3	Li-ion Battery 36V 2.1 Ah - 0.60 kg (1.32lb)			✓	✓	615 811 924 0
Chargers						
4	For Li-ion Battery 18 / 36V - 100 / 240V	✓	✓	✓	✓	615 811 654 5
Protective covers - Tools						
5	For Pistol - Clear	✓			✓	615 396 870 0
5	For Pistol - Black	✓			✓	615 211 030 0
5	For Pistol - Blue	✓			✓	615 211 031 0
5	For Pistol - Red	✓			✓	615 211 032 0
5	For Pistol - Grey	✓			✓	615 211 033 0
6	For Body angle head - Black		✓	✓	✓	615 211 004 0
6	For Body angle head - Blue		✓	✓	✓	615 211 025 0
6	For Body angle head - Red		✓	✓	✓	615 211 026 0
6	For Body angle head - Grey		✓	✓	✓	615 211 027 0
6	For Angle <15Nm - Black		✓		✓	615 397 672 0
6	For Angle 30Nm - Black			✓	✓	615 573 214 0
6	For Angle 45Nm - Black			✓	✓	615 573 215 0
Protective covers - Battery						
7	For Battery 18V 2.1Ah - Clear	✓	✓		✓	615 396 871 0
7	For Battery 18V 2.1Ah - Black	✓	✓		✓	615 211 041 0
7	For Battery 18V 2.1Ah - Blue	✓	✓		✓	615 211 042 0
7	For Battery 18V 2.1Ah - Red	✓	✓		✓	615 211 043 0
7	For Battery 18V 2.1Ah - Grey	✓	✓		✓	615 211 044 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Clear	✓	✓	✓	✓	615 396 872 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Black	✓	✓	✓	✓	615 211 046 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Blue	✓	✓	✓	✓	615 211 047 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Red	✓	✓	✓	✓	615 211 048 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Grey	✓	✓	✓	✓	615 211 049 0
Miscellaneous						
	• Kit Overmould Presto (x10 pcs)					615 211 057 5
8	Speed Setting Module (ELS/ELC version)	✓	✓	✓	✓	615 396 829 0
9	Pistol tool holster	✓			✓	615 804 914 0
10	Side handle - Pistol	✓			✓	615 396 757 0
11	Suspension bail - Pistol	✓			✓	443 703
12	Kit colour rings - Pistol (7 colors: white, yellow, orange, green, blue, purple, grey)	✓			✓	615 396 742 5
12	Kit colour rings - Angle tools (8 colors: white, yellow, orange, green, blue, purple, grey, black)		✓	✓	✓	615 970 114 5
13	Kit Nose Crowfoot	✓			✓	615 810 695 0
14	E-LIT BOX-Z				✓	615 936 086 0
15	E-LIT BOX Starter kit				✓	615 929 048 0
16	Power supply E-LIT BOX				✓	615 927 053 0
17	eDOCK	✓	✓	✓	✓	615 811 976 0
	• E-LIT CONFIG software	✓	✓	✓	✓	615 927 778 0
Desouter Tool Holsters						
18	DTH-42	✓			✓	107892
19	DTH90	✓			✓	615 812 119 0
20	DTH TWIN (single) without rail		✓	✓	✓	615 811 411 0
21	DTH TWIN rail kit with 2 Twin holders		✓	✓	✓	615 811 412 5
			✓	✓	✓	615 811 413 5



E-LIT Series

0.4 to 45 Nm (3.5 to 398 in.lb) - 50 to 1550 rpm



A



B



C

PIC REF	MODEL	PART NUMBER	TORQUE RANGE		ROTATIONAL SPEED	OUTPUT DRIVE	WEIGHT WITHOUT BATTERY		VOLTAGE
			Nm	in.lb			kg	lb	

E-LIT PLUS - ELECTRONIC BRUSHLESS MOTOR

A	ELB 2.5-1250-P	615 165 415 0	0.4-2.5	3.5-22	1250	Hex. 1/4 F	0.8	1.76	18
A	ELB 6-900-P	615 165 416 0	0.8-6	7.1-53	900	Hex. 1/4 F	0.8	1.76	18
A	ELB 6-670-P	615 165 440 0	0.8-6	7.1-53	670	Hex. 1/4 F	0.8	1.76	18
A	ELB 8-670-P	615 165 417 0	1.5-8	13.3-70	670	Hex. 1/4 F	0.8	1.76	18
A	ELB 12-600-P	615 165 418 0	3-12	26.5-106	570	Hex. 1/4 F	0.8	1.76	18

E-LIT PREMIUM - ELECTRONIC BRUSHLESS SPEED SETTING

A	ELS 2.5-1550-P	615 165 419 0	0.4-2.5	3.5-22	500-1550	Hex. 1/4 F	0.8	1.76	18
A	ELS 6-1000-P	615 165 420 0	0.8-6	7.1-53	300-1000	Hex. 1/4 F	0.8	1.76	18
A	ELS 8-400-P	615 165 605 0	1.5-8	13.3-70	120-400	Hex. 1/4 F	0.8	1.76	18
A	ELS 8-800-P	615 165 421 0	1.5-8	13.3-70	300-765	Hex. 1/4 F	0.8	1.76	18
A	ELS 8-400-P4S	615 165 825 0	1.5-8	13.3-70	120-400	Sq. 1/4	0.8	1.76	18
A	ELS 12-600-P	615 165 422 0	3-12	26.5-106	250-570	Hex. 1/4 F	0.8	1.76	18
A	ELS 12-400-P4S	615 165 826 0	3-12	26.5-106	120-400	Sq. 1/4	0.8	1.76	18
B	ELS 7-360-A4S	615 165 725 0	1.5-7	13.3-62	120-360	Sq. 1/4	1.2	2.6	18
B	ELS 7-880-A	615 165 628 0	1.5-7	13.3-62	400-880	Hex. 1/4 F	1.2	2.6	18
B	ELS 15-480-A	615 165 629 0	5-15	44.2-133	200-480	Sq. 3/8	1.2	2.6	18
B	ELS 15-480-A4S	615 165 839 0	5-15	44.2-133	200-480	Sq. 1/4	1.2	2.6	18
C	ELS 30-300-A	615 165 630 0	10-30	88.5-265	100-300	Sq. 3/8	1.5	3.3	36
C	ELS 45-180-A	615 165 631 0	20-45	177-398	50-180	Sq. 3/8	1.5	3.3	36

E-LIT WIRELESS - COMMUNICATION WITH E-LIT BOX

A	ELC 6-1000-P-Z	615 165 701 0	3-6	26.5-53	300-1000	Hex. 1/4 F	0.8	1.76	18
A	ELC 8-400-P-Z	615 165 702 0	3-8	26.5-70	120-400	Hex. 1/4 F	0.8	1.76	18
A	ELC 8-800-P-Z	615 165 703 0	3-8	26.5-70	300-765	Hex. 1/4 F	0.8	1.76	18
A	ELC 12-600-P-Z	615 165 704 0	3-12	26.5-106	250-570	Hex. 1/4 F	0.8	1.76	18
B	ELC 7-360-A4S-Z	615 165 726 0	3-7	26.5-62	150-360	Sq. 1/4	1.2	2.6	18
B	ELC 7-880-A-Z	615 165 707 0	3-7	26.5-62	400-880	Hex. 1/4 F	1.2	2.6	18
B	ELC 15-480-A-Z	615 165 708 0	5-15	44.2-133	200-480	Sq. 3/8	1.2	2.6	18
C	ELC 30-300-A-Z	615 165 709 0	10-30	88.5-265	100-300	Sq. 3/8	1.5	3.3	36
C	ELC 45-180-A-Z	615 165 710 0	20-45	177-398	50-180	Sq. 3/8	1.5	3.3	36

Battery not included in standard price



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B-FLEX: performance and flexibility



desoutter.info/B-FLEX-video

FOCUS



KEY POINTS

BEST ERGONOMICS	HIGH TECHNOLOGY	QUALITY CONTROL
Ergostop technology to avoid RSI (Repetitive Strain Injury)	Smart embedded HMI on tool	Direct feedback for the operator
Perfectly balanced grip design	High resolution transducer	Visible tightening results on tool HMI
Rebalancing with the two different battery positions	New motor dedicated to battery tools: high speed, high torque, low temperature	Torque control and angle monitoring
Operator comfort		

B-FLEX: Ergonomy and Control



desoutter.info/B-FLEX



ERROR PROOF QUALITY CONTROL

- Direct feedback for the operator
- Torque and Angle tightening result
- Torque control tightening strategy



No PC needed

100 last results on CVI monitor



USB cable included

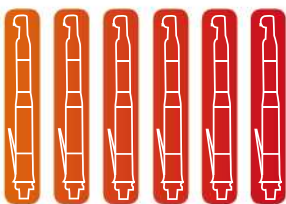
eDOCK

Diagram illustrating the B-FLEX tool's features and data collection capabilities:

- Data to collect:** Points to the LCD screen.
- Password protection:** Points to the top of the tool.
- Battery level:** Points to the top of the tool.
- Easy setting:** Points to the side of the tool.
- Ergostop:** Shows a screen with "Ergo Stop Enable" checked and "OK" button.
- Program setting:** Shows a screen with "Max angle 185 deg" and "OK" button.
- Results:** Shows a screen with "10.03Nm" and "162.3DEG".

B-FLEX ADVANCED (Standard features +)

6 Pset

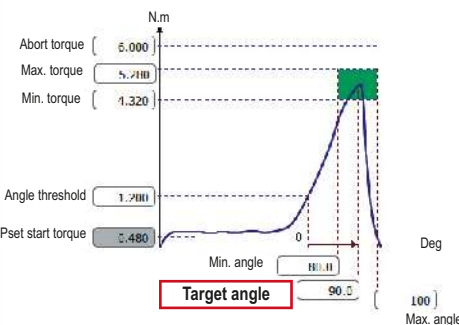


6 TOOLS in 1 B-FLEX



Angle Strategy

Error proof your standard tightenings



Full data collection

(up to 10 000 on CVI Analyzer)



USB cable included



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B-FLEX Series - Pistol grip

1.5 to 17 Nm (1.1 to 12.5 ft.lb) - 10 to 1800 rpm

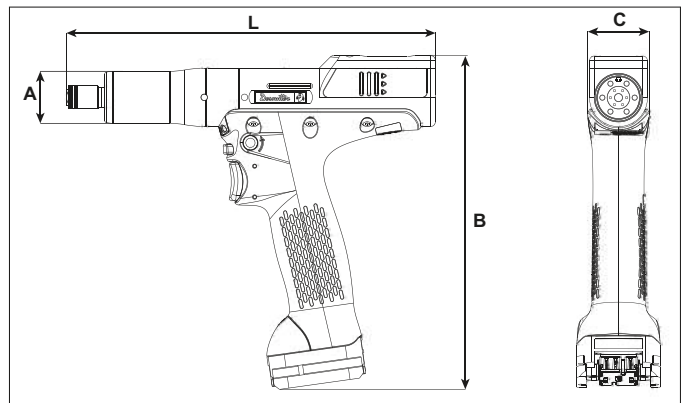



A



B

MODEL	L		A		B		C	
	mm	in.	mm	in.	mm	in.	mm	in.
EPB 8-1800-4Q	227	8.94	32	1.26	206	8.11	38	1.5
EPB 8-1800-10S	227	8.94	32	1.26	206	8.11	38	1.5
EPB 14-900-4Q	227	8.94	32	1.26	206	8.11	38	1.5
EPB 14-900-10S	227	8.94	32	1.26	206	8.11	38	1.5
EPB 17-700-4Q	227	8.94	32	1.26	206	8.11	38	1.5
EPB 17-700-10S	227	8.94	32	1.26	206	8.11	38	1.5



 **ACCESSORIES**
see page 22

PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE RANGE						ROTATIONAL SPEED (RPM)		WEIGHT WITHOUT BATTERY		VOLTAGE
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.	18V	36V	kg	lb	
			in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb					V

B-FLEX - TRANSDUCERIZED BATTERY TOOL

A	EPB 8-1800-4Q	615 165 899 0	Hex.1/4	1.5	7	8	1.1	5.2	5.9	900	1800	1	2.2	18/36
B	EPB 8-1800-10S	615 165 903 0	Sq.3/8	1.5	7	8	1.1	5.2	5.9	900	1800	1	2.2	18/36
A	EPB14-900-4Q	615 165 978 0	Hex.1/4	4	12	14	2.4	8.8	10.3	540	940	1	2.2	18/36
B	EPB14-900-10S	615 165 977 0	Sq.3/8	4	12	14	2.4	8.8	10.3	540	940	1	2.2	18/36
A	EPB 17-700-4Q	615 165 905 0	Hex.1/4	7	15	17	5.2	11	12.5	400	700	1	2.2	18/36
B	EPB 17-700-10S	615 165 901 0	Sq.3/8	7	15	17	5.2	11	12.5	400	700	1	2.2	18/36

B-FLEX - ADVANCED

A	EPBA 8-1800-4Q	615 165 972 0	Hex.1/4	1.5	7	8	1.1	5.2	5.9	900	1800	1	2.2	18/36
B	EPBA 8-1800-10S	615 165 971 0	Sq.3/8	1.5	7	8	1.1	5.2	5.9	900	1800	1	2.2	18/36
A	EPBA14-900-4Q	615 165 974 0	Hex.1/4	4	12	14	2.4	8.8	10.3	540	940	1	2.2	18/36
B	EPBA14-900-10S	615 165 973 0	Sq.3/8	4	12	14	2.4	8.8	10.3	540	940	1	2.2	18/36
A	EPBA 17-700-4Q	615 165 976 0	Hex.1/4	7	15	17	5.2	11	12.5	400	700	1	2.2	18/36
B	EPBA 17-700-10S	615 165 975 0	Sq.3/8	7	15	17	5.2	11	12.5	400	700	1	2.2	18/36

• Battery not included in standard configuration
• Battery 18V, 2.1Ah - Weight: 0.35kg



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B-FLEX Series - Angle head

5 to 95 Nm (3.7 to 70 ft.lb) - 10 to 900 rpm



A



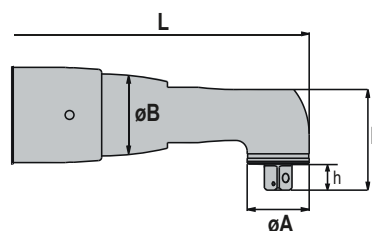
B



C

MODEL	L		H		H		ØA		ØB	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
EAB 15-900	470	18.5	10.2	0.40	33.8	1.33	22	0.87	37.0	1.46
EAB 26-560	496	19.5	12.0	0.47	45.7	1.80	28	1.10	37.0	1.46
EAB 32-410	496	19.5	12.0	0.47	45.7	1.80	28	1.10	37.0	1.46
EAB 45-330	506	19.9	12.0	0.47	51.0	2.00	35	1.38	37.0	1.46
EAB 50-450	546	21.5	12.0	0.47	51.0	2.00	35	1.38	37.0	1.46
EAB 60-370	559	22.0	11.9	0.468	57.0	2.20	40	1.57	41.0	1.61
EAB 75-300	582	22.9	17.5	0.69	60.4	2.38	45	1.77	48.5	1.91
EAB 95-240	582	22.9	17.5	0.69	60.4	2.38	45	1.77	48.5	1.91

L = Tool length without battery



ACCESSOIRES
see page 22

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE						ROTATIONAL SPEED	WEIGHT WITHOUT BATTERY		VOLTAGE
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		kg	lb	
			in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm			V
•	EAB 15-900	615 165 731 0	1/4	5	13	15	3.7	9.6	11	900	1.55	3.42	36
A	EAB 26-560	615 165 732 0	3/8	5	24	26	3.7	18	19	560	1.65	3.64	36
A	EAB 32-410	615 165 733 0	3/8	7	30	32	5.2	22	24	410	1.65	3.64	36
B	EAB 45-330	615 165 734 0	3/8	9	40	45	6.6	30	33	330	1.76	3.88	36
B	EAB 50-450	615 165 735 0	3/8	9	45	50	6.6	33	37	450	2.04	4.50	36
B	EAB 60-370	615 165 736 0	1/2	10	55	60	7.4	41	44	370	2.35	5.18	36
C	EAB 75-300	615 165 737 0	1/2	12	70	75	8.8	52	55	300	2.94	6.48	36
C	EAB 95-240	615 165 738 0	1/2	19	90	95	14	66	70	240	2.98	6.57	36

B-FLEX - ADVANCED

•	EABA15-900	615 165 961 0	1/4	5	13	15	3.7	9.6	11	900	1.55	3.42	36
A	EABA26-560	615 165 962 0	3/8	5	24	26	3.7	18	19	560	1.65	3.64	36
A	EABA32-410	615 165 963 0	3/8	7	30	32	5.2	22	24	410	1.65	3.64	36
B	EABA45-330	615 165 964 0	3/8	9	40	45	6.6	30	33	330	1.76	3.88	36
B	EABA50-450	615 165 965 0	3/8	9	45	50	6.6	33	37	450	2.04	4.50	36
B	EABA60-370	615 165 966 0	1/2	10	55	60	7.4	41	44	370	2.35	5.18	36
C	EABA75-300	615 165 967 0	1/2	12	70	75	8.8	52	55	300	2.94	6.48	36
C	EABA95-240	615 165 968 0	1/2	19	90	95	14	66	70	240	2.98	6.57	36

• Battery not included in standard price
• Battery 36V, 2.1Ah - Weight

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21

Accessories



EPB / EAB

ACCESSORIES INCLUDED

	EPB/EPBA
• Pistol protective cover Red	615 211 022 0

OPTIONAL ACCESSORIES

ITEM	EAB/EABA	EPB/EPBA
------	----------	----------

Battery type

1	Li-ion Battery 18V 2.1 Ah - 0.35 kg (0.77lb)	615 812 099 0
2	Li-ion Battery 18V 4.2 Ah - 0.60 kg (1.32lb)	615 812 100 0
3	Li-ion Battery 36V 2.1 Ah - 0.60 kg (1.32lb)	615 811 924 0

Charger

4	For Li-ion Battery 18 / 36V - 100 / 240V	615 811 654 5	615 811 654 5
---	--	---------------	---------------

Protective covers - Tools

5	For Angle head EAB 15	615 211 003 0
5	For Angle head EAB 26/32	615 573 207 0
5	For Angle head EAB 45/50	615 573 208 0
5	For Angle head EAB 60	615 573 209 0
5	For Angle head EAB 75/95	615 573 210 0
6	Pistol protective cover Black	615 211 019 0

Protective covers - Battery

7	For Battery 18V 2.1Ah - Clear	615 396 871 0	
7	For Battery 18V 2.1Ah - Black	615 211 041 0	
7	For Battery 18V 2.1Ah - Blue	615 211 042 0	
7	For Battery 18V 2.1Ah - Red	615 211 043 0	
7	For Battery 18V 2.1Ah - Grey	615 211 044 0	
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Clear	615 396 872 0	615 396 872 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Black	615 211 046 0	615 211 046 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Blue	615 211 047 0	615 211 047 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Red	615 211 048 0	615 211 048 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Grey	615 211 049 0	615 211 049 0

Miscellaneous

8	Nose crowfoot adapter for EPB	615 565 518 0	
9	eDOCK	615 811 976 0	615 811 976 0

Desoutter Tool holster

10	DTH TWIN (single) without rail	615 811 411 0
11	DTH TWIN rail kit with 2 Twin holders	615 811 412 5
12	DTH TWIN stand kit with 2 Twin holders	615 811 413 5
13	DTH90	615 812 119 0



Advanced Tightening Systems

ELECTRIC TRANSDUCER CORDLESS

EABcom
5 - 95 Nm

EPBcom
1.5 - 17 Nm

ELECTRIC TRANSDUCER CORD



EAD/EID cable



EFD cable

Adaptator CVI II for ERx tools and EME tools (except ELRT)

CVI II



ERP.LT, cable included ER cable

Module ERS to connect CVI3 controllers

CVIR II H4



Cable included

CVIR II

EAD
3 - 660 Nm

EID
3 - 270 Nm

EFDE / EFDS
1 - 280 Nm

EFDA
12 - 580 Nm

ELRT
10 - 25 Nm

ERAL
2 - 480 Nm

ERDL
0.5 - 250 Nm

ERP
0.35 - 42 Nm

EME
1 - 1900 Nm

EMEL
10 - 800 Nm

EME OF
4 - 350 Nm

ERP HT
75-1700 Nm

ERS (M20)
0.6 - 22 Nm

ERSA
0.6 - 27 Nm

ERSF
1.5 - 12 Nm

ELECTRIC CURRENT CONTROL

CVIC II-L2
CVIC II-H2



Cable included

ECP.LT, cable included

EC cable

MC cable

CVIC II-L4
CVIC II-H4



EC cable

MC cable

ECS (M20)
0.12 - 16 Nm

ECSA
0.55 - 11.5 Nm

ECSF
0.12 - 16 Nm

ECP.L
1 - 20 Nm

ECA15
5 - 15 Nm

ECD5
2 - 6 Nm

MC35-10
2.5 - 8 Nm

ECA
7 - 200 Nm

ECD
7 - 120 Nm

ECP
ECP HT
7 - 4000 Nm

MC



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The new standard of Value in Efficient Tightening...

In an era of FLEXIBLE manufacturing and the race to ZERO-fault assembly, Desoutter is proud to introduce the new standard of Value in Efficient Tightening for safety-critical applications: CVI3 assembly system

This new system offers unequalled EFFICIENCY for all plants thanks to the best combination of advanced process control, easy integration, user-friendly interface & unmatched flexibility

The CVI3 system integrates UNIQUE added value INNOVATIONS:
Reduce rework cost: complete station process control including tightening

& logical operations without need for a dedicated PLC > **Assembly Process**
Decrease installation/re-balance cost: Fast & easy line re-balancing with multiple Battery transducerized tools connected to 1 CVI3 controller > **EAB cordless tools**

Improve quality with intuitive software: User-friendly & visual interface to view tightening data & detect quality issues > **CVI ANALYZER**

Optimize flexibility: 2 fixtured spindles synchronized or asynchronous in standard > **TWINCVI3**



**ADVANCED
PROCESS
CONTROL**



**EASY
INTEGRATION**



**UNMATCHED
FLEXIBILITY**



**USER-FRIENDLY
INTERFACE**



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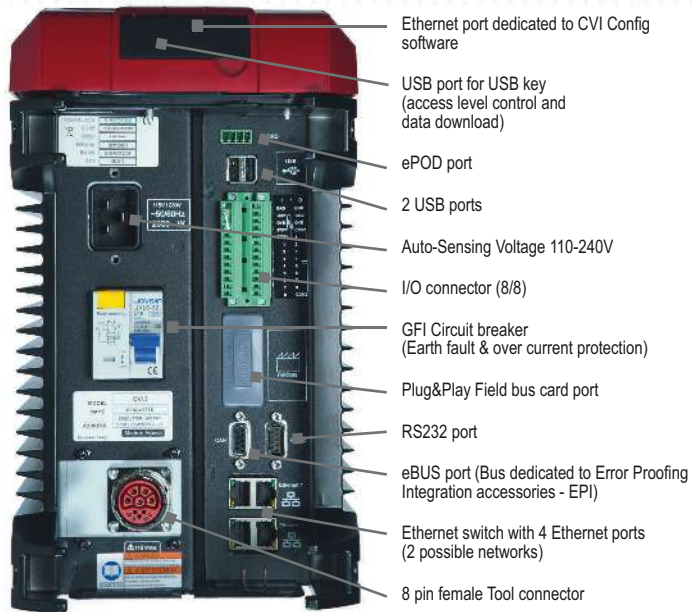
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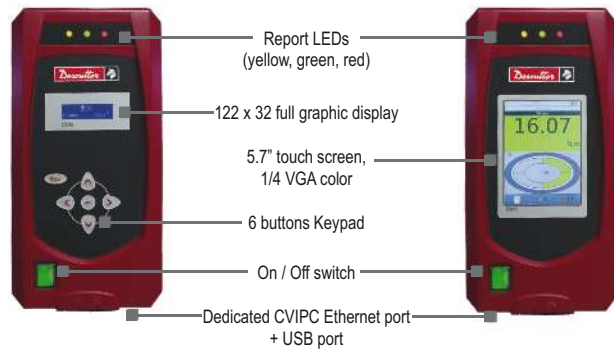


Technical features



CVI3 Function

CVI3 Vision



FEATURES	CVI3 FUNCTION	CVI3 VISION	TWINCVI3 SYNCHRO/ASYNCHRO
Controllers			
Weight - kg (lbs)	9.3 (20.5)	9.3 (20.5)	15 (33.1)
Volume (dm3)	19.5	19.5	29.6
Color touchscreen		✓ (5.7")	✓ (5.7")
Storage			
Pset results (torque, angle, date, time, report)	10000	10000	10000/20000
Pset curves (OK/NOK)	20	20	20/40
Assembly Process results	1000	1000	1000/2000
Event log storage (number of events)	500	500	500
Basic Functions			
Nbr of Psets	250	250	250
Nbr of steps per Pset	15	15	15
Barcode reading (standard and 2D)	✓	✓	✓
Learning mode	✓	✓	✓
Quick Pset	✓	✓	✓
Tubnut release	✓	✓	✓
Advanced Functions			
Access Level Control/Management with unlimited profiles	✓	✓	✓
ID input to select Assembly Process (up to 4 different identifiers)	✓	✓	✓
Number of Assembly Process	250	250	250
Advanced Soft PLC (in option with CVILOGIX)	✓	✓	✓
1 Network/Fieldbus Access point per group of up to 14 controllers		✓	✓
Full synchronized control for a group of up to 14 controllers (static/dynamic)		✓	✓
Tightening strategies			
*Control: torque, angle, torque OR angle, torque AND angle, yield point, torque rate	✓	✓	✓
*Monitoring: yield point, torque rate, 2nd torque, 2nd angle, 2nd part angle, current, slip off, stick slip	✓	✓	✓
Connectivity			
Configurable I/O	8/8	8/8	8/8
USB ports (2 + 1 front)	✓	✓	✓
Embedded Ethernet switch (4 ports + 1 front – 2 networks)	✓	✓	✓
Dedicated Bus for up to 15 accessories in daisy chain	✓	✓	✓
Optional Fieldbus			
Plug&Play Fieldbus card port (EthernetIP, ProfiNet A/B, Modbus TCP, DeviceNet, Profibus, CC-Link)	✓	✓	✓
Fieldbus dynamic memory mapping	✓	✓	✓

Controllers



desoutter.info/CVI3



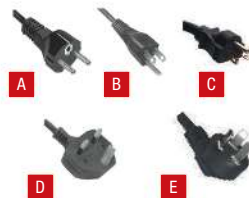
PIC REF	MODEL	PART NUMBER	CONSUMPTION (CURRENT)		MAIN SUPPLY	DIMENSIONS						WEIGHT	
			115V	220V		WIDTH		HEIGHT		DEPTH		kg	lb.
A	CVI3 Vision	615 932 691 0	4A	2A	Single-phase	175	6.9	361	14.2	310	12.2	9.3	20.5
B	TWINCVI3	615 932 697 0	8A	4A	Single-phase	265	10.4	361	14.2	310	12.2	15.0	33.1
C	CVI3 Function	615 932 690 0	4A	2A	Single-phase	175	6.9	361	14.2	310	12.2	9.3	20.5

CVIMONITOR included with controller: License free remote software for realtime monitoring of results, curves, I/O status, Fieldbus diagnostic, calibration & maintenance indicators

POWER CORD

to be ordered with the controller

PLUG	DESCRIPTION	PART NO.
A	European	615 917 069 0
B	US NEMA 5-15	615 917 060 0
C	US NEMA 5-20	615 917 063 0
D	UK	615 917 070 0
E	Chinese	615 917 061 0



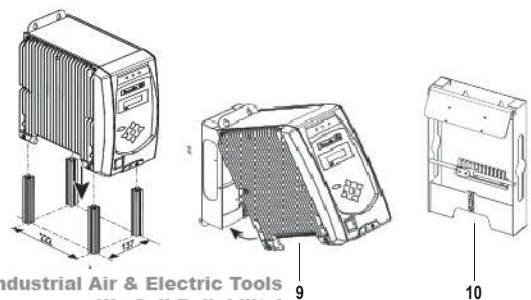
OPTIONAL ACCESSORIES

Software

	PART NO.
• CVI CONFIG - 1 user	615 927 699 0
• CVI CONFIG - 5 users	615 927 700 0
• CVI CONFIG - 25 users	615 927 701 0
• CVI ANALYZER - 1 user	615 927 696 0
• CVI ANALYZER - 5 users	615 927 697 0
• CVI ANALYZER - 25 users	615 927 698 0
• CVINET WEB - 1 cont.	615 927 736 0
• CVINET WEB - 10 cont.	615 927 737 0
• CVINET WEB - 25 cont.	615 927 738 0
• CVINET WEB - 50 cont.	615 927 739 0
• CVINET WEB - 100 cont.	615 927 747 0
• CVINET WEB - 200 cont.	615 927 748 0
• Upgrade from CVI NET to CVINET WEB 1 cont.	615 927 740 0
• Upgrade from CVI NET to CVINET WEB 10 cont.	615 927 741 0
• Upgrade from CVI NET to CVINET WEB 25 cont.	615 927 742 0
• Upgrade from CVI NET to CVINET WEB 50 cont.	615 927 743 0
• Upgrade from CVI NET to CVINET WEB 200 cont.	615 927 744 0
• CVIKEY (access level management on USB key)	615 927 676 0

OPTIONAL ACCESSORIES

ITEM		PART NO.
Fieldbus modules		
1	Profibus module	615 927 595 0
2	ProfiNet module (1 port)	615 927 596 0
3	ProfiNet module (2 ports)	615 927 597 0
3	ProfiNet IRT module (2 ports)	615 927 070 0
4	DeviceNet module	615 927 599 0
4	CC-Link module	615 927 598 0
5	EtherNet IP module	615 927 594 0
6	Modbus TCP module	615 927 615 0
ePOD		
7	ePOD1	615 936 075 0
7	ePOD2	615 936 076 0
7	ePOD3	615 936 077 0
Others Accessories		
8	Table mounting	615 397 399 5
9	Wall mounting CVI3 Function/Vision	615 397 631 5
10	Wall mounting TWINCVI3	615 811 897 0



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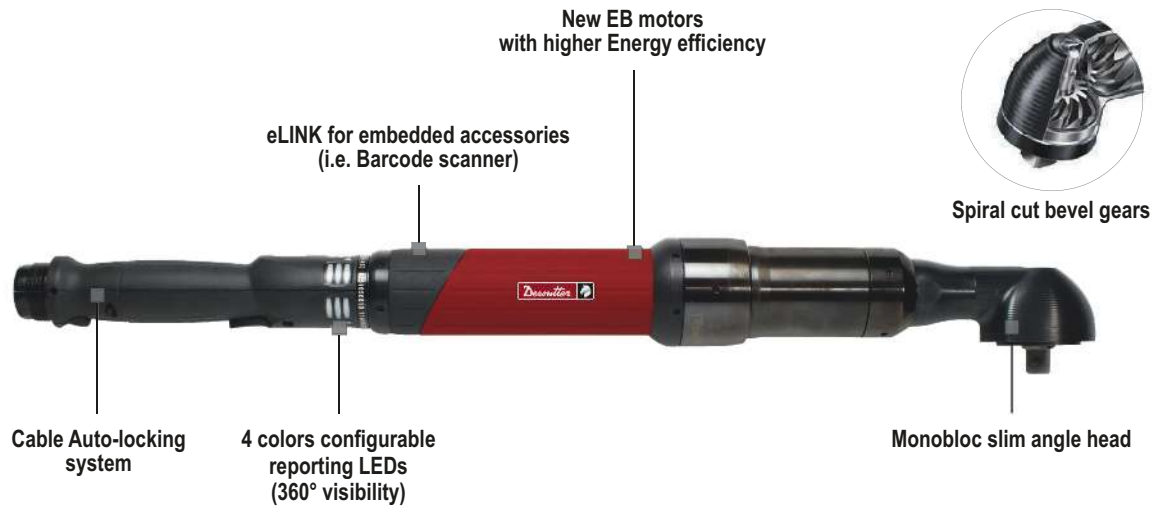
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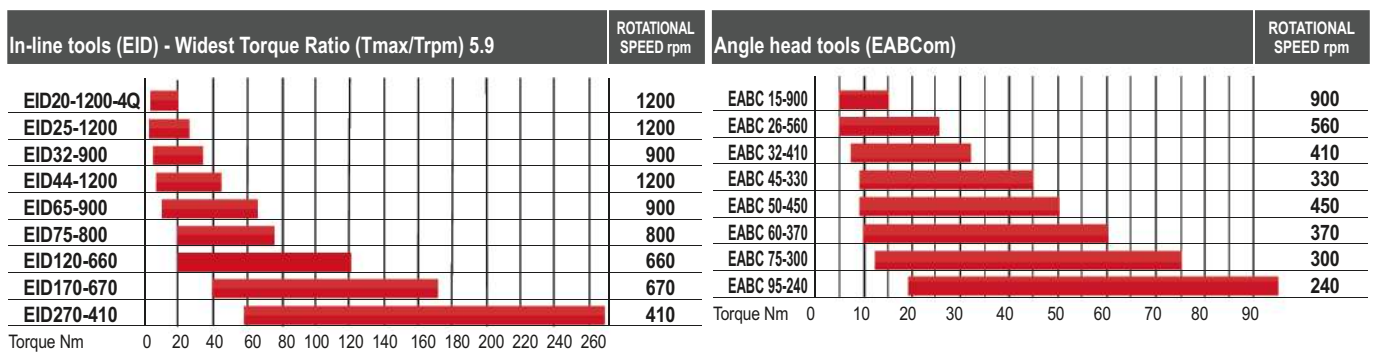
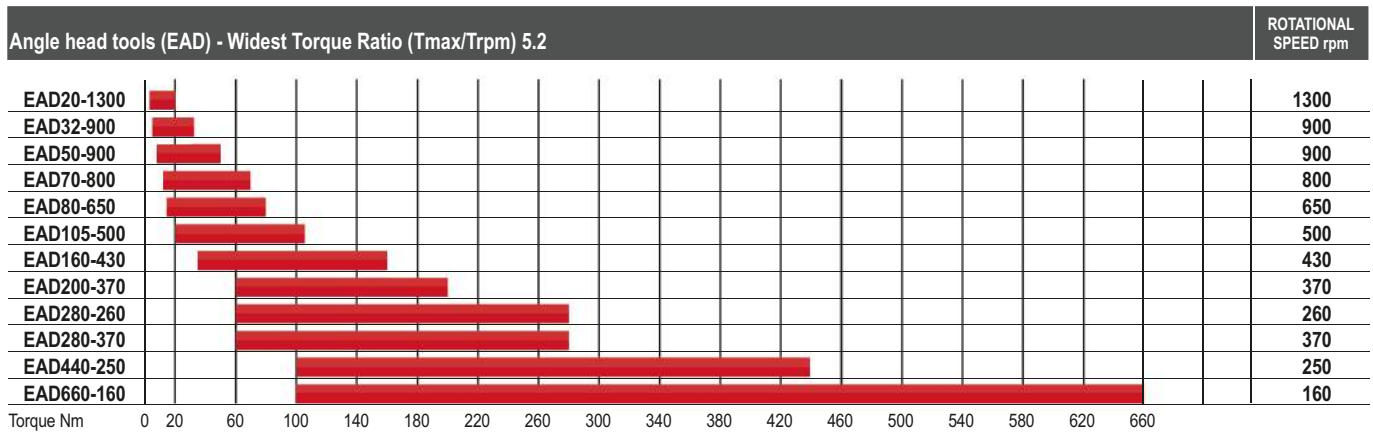
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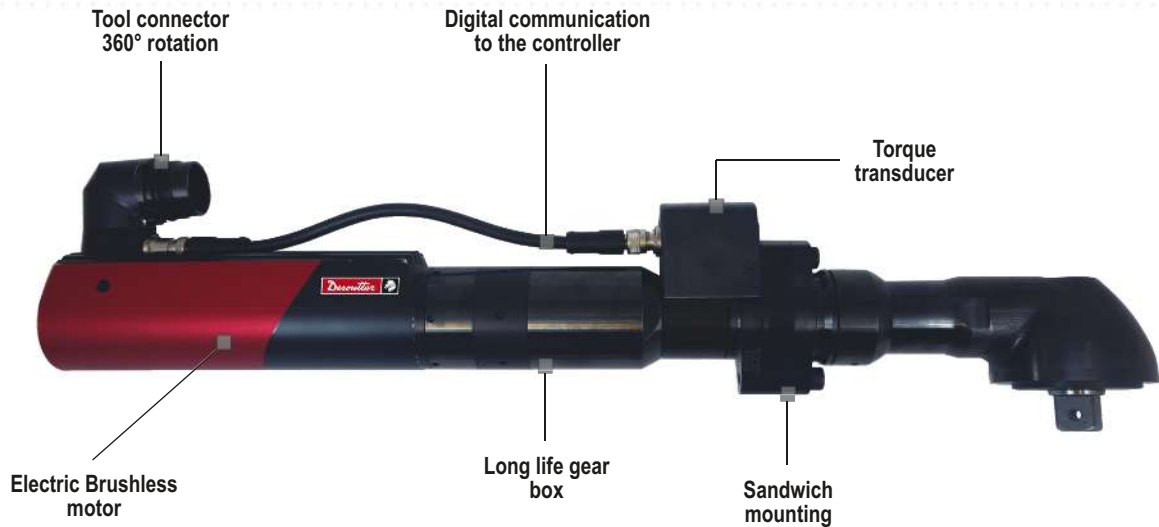
Torque Range - Portable electric nutrunners



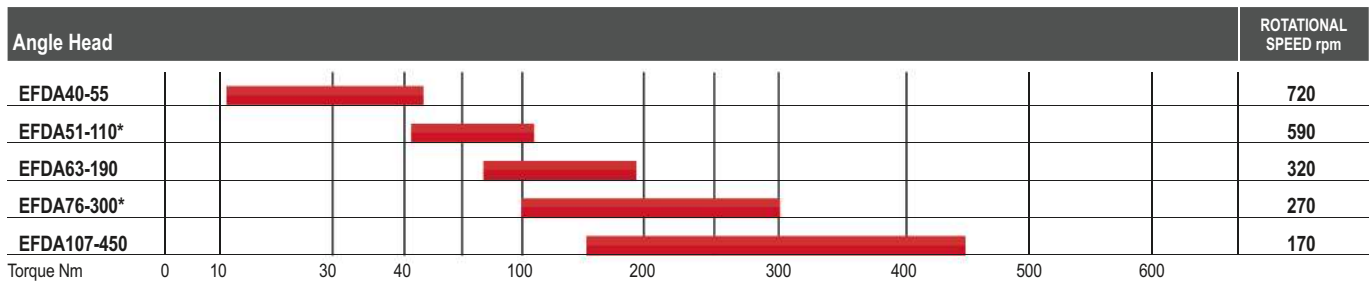
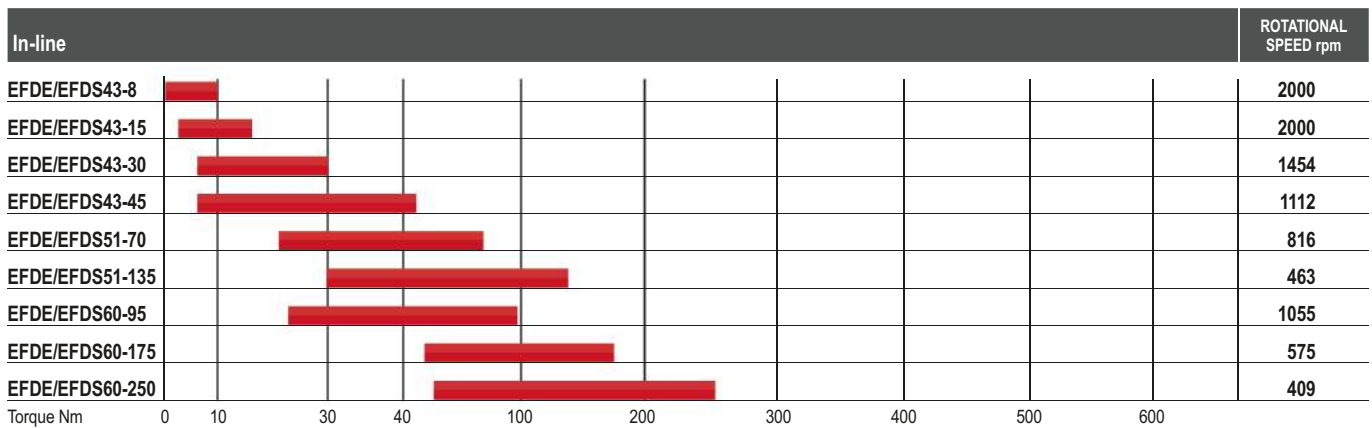
Performance of Portable electric nutrunners - EAD, EID, EABC, EPBC and ERP



Torque Range - Fixtured electric spindles



Performance of Fixtured electric spindles - Series EFDE, EFDS and EFDA



*On request, contact your Desoutter representative

For Higher torque,
please refer to the section EME tools (page 57)

- EME up to 1900 Nm (1400 ft.lb)
- EME Offset up to 300 Nm (221 ft.lb)
- EMEL up to 800 Nm (590 ft.lb)

Pistol grip electric nutrunners - CVI3

0.35 to 42 Nm (0.26 to 31 ft.lb) - 680 to 2000 rpm



A




B



C



D

 **ACCESSORIES**
see pages 42-43

CVI II Adapter needed

PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE						ROTATIONAL SPEED	LENGTH		WEIGHT	
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		mm	in.	kg	lb.
			in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm				
A	ERP3L	615 165 193 0	Hex. 1/4 F	0.35	3	3.3	0.26	2.2	2.4	2000	196	7.7	1.0	2.2
A	ERP5L	615 165 194 0	Hex. 1/4 F	0.5	5	5.5	0.37	3.7	4	2000	196	7.7	1.0	2.2
A	ERP10L	615 165 195 0	Hex. 1/4 F	1.5	10	12	1.1	7.4	8.8	1540	196	7.7	1.1	2.4
A	ERP20L	615 165 196 0	Hex. 1/4 F	3	20	23	2.2	14.7	17	790	196	7.7	1.1	2.4
A	ERP20S	615 165 197 0	Hex. 1/4 F	3	20	23	2.2	14.7	17	1540	221	8.7	1.2	2.6
B	ERP30S	615 165 198 0	Sq. 3/8	5	30	30	3.7	22.1	22	1070	217	8.5	1.2	2.6
C	ERP40S	615 165 263 0	Sq. 3/8	6	40	42	4.4	29.5	31	680	274	11	1.7	3.7
D	ERP3LT	615 165 227 0	Hex. 1/4 F	0.35	3	3.3	0.26	2.2	2.4	2000	196	7.7	1.0	2.2
D	ERP5LT	615 165 228 0	Hex. 1/4 F	0.5	5	5.5	0.37	3.7	4	2000	196	7.7	1.0	2.2
D	ERP10LT	615 165 229 0	Hex. 1/4 F	1.5	10	12	1.1	7.4	8.8	1540	196	7.7	1.1	2.4
D	ERP20LT	615 165 230 0	Hex. 1/4 F	3	20	23	2.2	14.7	17	790	196	7.7	1.1	2.4



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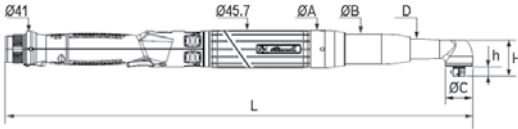
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Angle head electric nutrunners - CVI3

3 to 105 Nm (2.2 to 77.4 ft.lb) - 500 to 1300 rpm



MODEL	h		H		ØA		ØB		ØC		ØD	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
EAD20-1300	12.0	0.47	45.5	1.79	46	1.81	37	1.46	25	0.98	28	1.10
EAD32-900	12.0	0.47	45.5	1.79	46	1.81	37	1.46	25	0.98	28	1.10
EAD50-900	12.0	0.47	51.1	2.01	46	1.81	37	1.46	28	1.10	35	1.38
EAD70-800	12.0	0.47	56.7	2.23	58	2.28	43	1.69	32	1.26	40	1.57
EAD80-650	17.5	0.69	60.4	2.38	58	2.28	48	1.89	40	1.57	45	1.77
EAD105-500	17.5	0.69	60.4	2.38	58	2.28	48	1.89	40	1.57	45	1.77

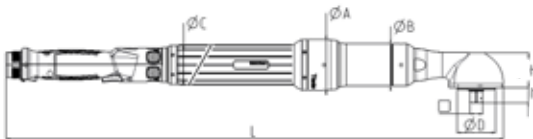
ACCESSORIES
see pages 42-43



MODEL	PART NUMBER	SQUARE DRIVE	TORQUE						ROTATIONAL SPEED	LENGTH		WEIGHT	
			MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		mm	in.	kg	lb.
		in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	kg	lb.
EAD20-1300	615 165 606 0	3/8	3	18	20	2.2	13.3	14.8	1300	481	19.2	1.4	3.08
EAD32-900	615 165 607 0	3/8	5	30	32	3.7	22.1	23.6	900	481	19.2	1.4	3.08
EAD50-900	615 165 609 0	3/8	8	45	50	5.9	33.2	40.6	900	531	20.9	1.8	3.96
EAD70-800	615 165 611 0	3/8	12	65	70	8.9	47.9	51.6	800	544	21.4	2.0	4.40
EAD70-800	615 165 882 0	1/2	12	65	70	8.9	47.9	51.6	800	544	21.4	2.0	4.40
EAD80-650	615 165 612 0	1/2	15	75	80	11.1	55.3	59	650	567	22.3	2.4	5.72
EAD105-500	615 165 613 0	1/2	20	90	105	14.8	66.4	77.4	500	567	22.3	2.4	5.72

Angle head electric nutrunners - CVI3

35 to 660 Nm (26 to 487 ft.lb) - 160 to 430 rpm



MODEL	h		H		ØA		ØB		ØC		ØD	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
EAD160-430	17.1	0.67	65	2.56	66	2.6	55	2.17	52	2.05	50	1.16
EAD200-370	23	0.91	85	3.35	66	2.6	55	2.17	52	2.05	62	2.44
EAD280-260	23	0.91	85	3.35	66	2.6	55	2.17	52	2.05	62	2.44
EAD280-370	23	0.91	85	3.35	72	2.83	55	2.17	66	2.60	62	2.44
EAD440-250	24	0.94	91	3.58	76	2.99	67	2.64	66	2.60	75	2.95
EAD660-160	33.1	1.3	110	4.33	76	2.99	67	2.64	66	2.60	106	4.17

ACCESSORIES
see pages 42-43



MODEL	PART NUMBER	SQUARE DRIVE	TORQUE						ROTATIONAL SPEED	LENGTH		WEIGHT	
			MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		mm	in.	kg	lb.
		in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	kg	lb.
EAD160-430	615 165 681 0	1/2	35	150	160	26	111	118	430	650	25.6	4.3	9.5
EAD200-370	615 165 682 0	3/4	60	170	200	44	125	148	370	673	26.5	5.1	11.2
EAD280-260	615 165 683 0	3/4	60	250	280	44	184	207	260	673	26.5	5.1	11.2
EAD280-370	615 165 684 0	3/4	60	250	280	44	184	207	370	681	26.8	6.1	13.5
EAD440-250	615 165 685 0	3/4	100	400	440	74	205	225	250	735	28.9	8.4	18.5
EAD660-160	615 165 686 0	1	35	150	160	26	111	118	160	774	30.4	11.0	24.3



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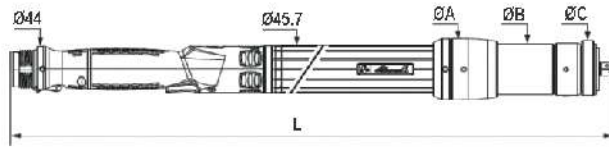
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In-line electric nutrunners - CVI3

3 to 75 Nm (2.2 to 57.5 ft.lb) - 800 to 1200 rpm



MODEL	ØA		ØB		ØC	
	mm	in.	mm	in.	mm	in.
EID20-1200-4Q	62	2.44	37	1.46	60	2.36
EID25-1200	62	2.44	37	1.46	60	2.36
EID32-900	62	2.44	37	1.46	60	2.36
EID44-1200	62	2.44	48	1.89	54	2.13
EID65-900	58	2.28	48	1.89	54	2.13
EID75-800	58	2.28	48	1.89	54	2.13

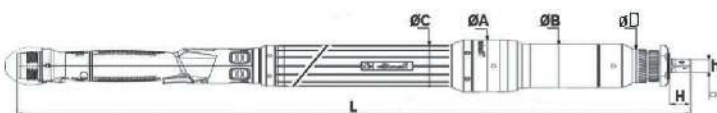
 **ACCESSORIES**
see pages 42-43

MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE						ROTATIONAL SPEED	LENGTH		WEIGHT	
			MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		mm	in.	kg	lb.
		in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	kg	lb.
EID20-1200-4Q*	615 165 992 0	Hex. 1/4 F	3	18	20	2.2	13.3	14.8	1200	430	16.9	1.20	2.64
EID25-1200*	615 165 614 0	Sq. 3/8	3	20	25	2.2	14.8	18.4	1200	430	16.9	1.20	2.64
EID32-900*	615 165 615 0	Sq. 3/8	5	30	32	3.7	22.1	25.1	900	430	16.9	1.20	2.64
EID44-1200*	615 165 616 0	Sq. 3/8	7	40	44	5.2	29.5	33.2	1200	489	19.3	1.95	4.29
EID65-900	615 165 617 0	Sq. 1/2	10	60	65	7.4	44.3	47.9	900	489	19.3	1.95	4.29
EID75-800	615 165 618 0	Sq. 1/2	20	70	75	14.8	51.6	57.5	800	489	19.3	1.95	4.29


(*): Tools mounted with second lever start in standard

In-line electric nutrunners - CVI3

20 to 270 Nm (15 to 199 ft.lb) - 410 to 670 rpm



MODEL	ØA		ØB		ØC		ØD	
	mm	in.	mm	in.	mm	in.	mm	in.
EID120-660	66	2.60	55	2.17	52	2.05	42.0	1.65
EID170-670	72	2.83	55	2.17	66	2.60	42.0	1.65
EID270-410	76	2.99	67	2.64	66	2.60	53.5	2.11

 **ACCESSORIES**
see pages 42-43

MODEL	PART NUMBER	SQUARE DRIVE	TORQUE						ROTATIONAL SPEED	LENGTH		WEIGHT	
			MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		mm	in.	kg	lb.
		in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	kg	lb.
EID120-660	615 165 677 0	1/2	20	110	120	15	81	89	660	583	22.9	3.3	7.3
EID170-670	615 165 678 0	1/2	40	150	170	30	111	125	670	591	23.3	4.6	10.1
EID270-410	615 165 679	1/2	40	150	170	30	111	125	670	625	24.6	6.1	13.5



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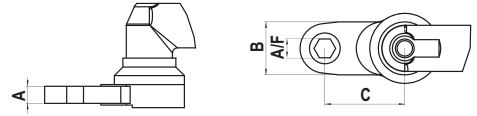
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Crowfoot and tube nut tools



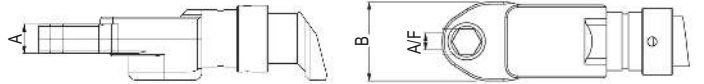
Offset Closed



MODEL	PART NUMBER	TORQUE RANGE		FREE SPEED	WEIGHT		DIMENSIONS							
		Nm	ft.lb		rpm	kg	lb.	AF		A		B		C
EAD12-1300-CE10-L47-H10-W22	615 165 828 0	4-12	2.95-8.9	1300	2.1	4.6	10	0.39	10	0.39	22	0.87	65.6	2.58
EAD18-900-CE10-L47-H15-W22	615 165 829 0	4-18	2.95-13.3	900	2.1	4.6	10	0.39	15	0.59	22	0.87	65.6	2.58
EAD28-800-CE13-L62-H15-W30	615 165 832 0	7-28	5.2-20.7	800	2.5	5.5	13	0.51	15	0.59	30	1.18	84.0	3.31
EAD44-800-CE14-L71-H18-W31	615 165 833 0	8-44	5.9-32.5	800	2.6	5.7	14	0.50	18	0.71	31	1.22	93.6	3.68
EAD65-500-CE17-L78-H24-W30	615 165 834 0	14-65	10.3-47.9	500	3.0	6.6	17	0.67	24	0.94	30	1.18	102	4.02



In line Closed

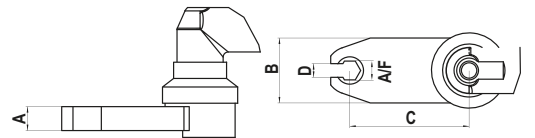


MODEL	PART NUMBER	TORQUE RANGE		FREE SPEED	WEIGHT		DIMENSIONS							
		Nm	ft.lb		rpm	kg	lb.	AF		A		B		
EID28-660-CE13-L45-H15-W30	615 165 837 0	6-28	4.4-20.7	660	1.9	4.2	13	0.51	15	0.59	30	1.18		



Offset Open

Double start

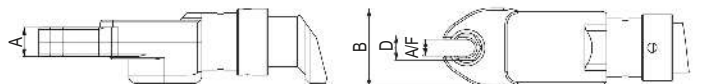


MODEL	PART NUMBER	TORQUE RANGE		FREE SPEED	WEIGHT		DIMENSIONS									
		Nm	ft.lb		rpm	kg	lb.	AF		A		B		C		D
EAD15-900-OE12-L44-H12-W32	615 165 830 0	4-15	2.95-11.1	900	2.1	4.6	12	0.47	12	0.47	32	1.26	62.8	2.47	8	0.31
EAD18-900-OE13-L51-H11-W38	615 165 831 0	4-18	2.95-13.3	900	2.2	4.9	13	0.51	11	0.43	38	1.49	73	2.87	8	0.31



In line Open

Double start



MODEL	PART NUMBER	TORQUE RANGE		FREE SPEED	WEIGHT		DIMENSIONS							
		Nm	ft.lb		rpm	kg	lb.	AF		A		B		D
EID20-900-OE12-L31-H14-W38	615 165 835 0	4-20	2.95-14.8	900	1.9	4.2	12	0.47	14	0.55	38	1.49	8	0.31
EID28-660-OE14-L34-H18-W40	615 165 836 0	6-28	4.4-20.7	660	1.9	4.2	14	0.55	18	0.71	40	1.57	10.4	0.41



Flush Socket tools

Contact your Desoutter representative for assistance in specifying the correct head for your application. We can supply standard products or, if the application requires, we can also provide customized tools.

Wireless transducerized battery tool



ADVANCED ERGONOMICS

- Low weight tools
- Effortless trigger
- 45° oriented battery (angle version)
- Slim angle head for tight areas access



INCREASED PRODUCTIVITY

- High speed tool and increased autonomy with 36V battery & 2.1 Ah capacity
- Embedded display for pset selection
- Strong & efficient wireless communication, tested in industrial environment



EASY INTEGRATION

- Quick wireless installation - Directly on an existing CVI3 controller
- Data collection through wireless communication
- Improve error-proofing control with advanced tightening strategies
- Easy attachment for crowfoot & tubenuts



OPTIMIZED MAINTENANCE

- Long life batteries, no memory effect on Li-ion battery
- Dust & oil proof trigger
- Common spare parts with all CVI3 range



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EPBcom Series

1.5 to 17 Nm (1.1 to 12.5 ft.lb) - 10 to 1800 rpm

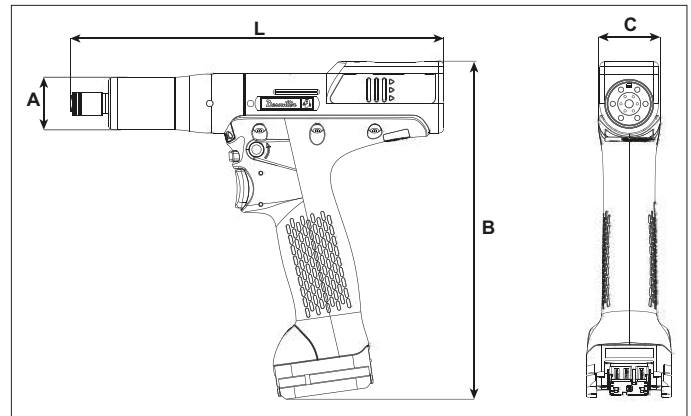


A



B

MODEL	L		A		B		C	
	mm	in.	mm	in.	mm	in.	mm	in.
EPBC 8-1800-4Q	227	8.94	32	1.26	206	8.11	38	1.5
EPBC 8-1800-10S	227	8.94	32	1.26	206	8.11	38	1.5
EPBC14-900-4Q	227	8.94	32	1.26	206	8.11	38	1.5
EPBC14-900-10S	227	8.94	32	1.26	206	8.11	38	1.5
EPBC 17-700-4Q	227	8.94	32	1.26	206	8.11	38	1.5
EPBC 17-700-10S	227	8.94	32	1.26	206	8.11	38	1.5



ACCESSORIES
see page 37

PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE RANGE						ROTATIONAL SPEED (RPM)		WEIGHT WITHOUT BATTERY		VOLTAGE
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.	18V	36V	kg	lb	

EPBcom - TRANSDUCERIZED BATTERY TOOL

A	EPBC 8-1800-4Q	615 165 900 0	Hex.1/4"F	1.5	7	8	1.1	5.2	5.9	900	1800	1.0	2.2	18/36
B	EPBC 8-1800-10S	615 165 904 0	Sq.3/8	1.5	7	8	1.1	5.2	5.9	900	1800	1.0	2.2	18/36
A	EPBC14-900-4Q	615 165 980 0	Hex.1/4"F	4	12	14	2.9	8.8	10.3	540	940	1.0	2.2	18/36
B	EPBC14-900-10S	615 165 979 0	Sq. 3/8	4	12	14	2.9	8.8	10.3	540	940	1.0	2.2	18/36
A	EPBC 17-700-4Q	615 165 906 0	Hex.1/4"F	7	15	17	5.2	11	12.5	400	700	1.0	2.2	18/36
B	EPBC 17-700-10S	615 165 902 0	Sq.3/8	7	15	17	5.2	11	12.5	400	700	1.0	2.2	18/36

- Battery not included in standard price
- Battery 18V, 2.1 Ah: 0.35 kg



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35

EABcom Series

5 to 95 Nm (3.7 to 70 ft.lb) - 10 to 900 rpm



A

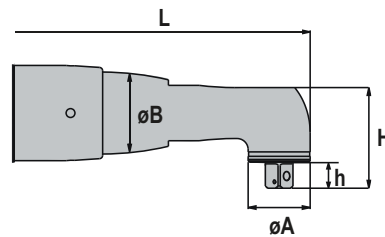


B



C

MODEL	L		H		H		ØA		ØB	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
EABC 15-900	470	18.5	10.2	0.40	33.8	1.33	22	0.87	37.0	1.46
EABC 26-560	496	19.5	12.0	0.47	45.7	1.80	28	1.10	37.0	1.46
EABC 32-410	496	19.5	12.0	0.47	45.7	1.80	28	1.10	37.0	1.46
EABC 45-330	506	19.9	12.0	0.47	51.0	2.00	35	1.38	37.0	1.46
EABC 50-450	546	21.5	12.0	0.47	51.0	2.00	35	1.38	37.0	1.46
EABC 60-370	559	22.0	11.9	0.468	57.0	2.20	40	1.57	41.0	1.61
EABC 75-300	582	22.9	17.5	0.69	60.4	2.38	45	1.77	48.5	1.91
EABC 95-240	582	22.9	17.5	0.69	60.4	2.38	45	1.77	48.5	1.91



L = Tool length without battery

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE			ROTATIONAL SPEED	WEIGHT WITHOUT BATTERY		VOL-TAGE
				MIN.	RECOM-MENDED	MAX.		kg	lb	
			in.	Nm	Nm	Nm	rpm			V

EABcom - TRANSDUCERIZED BATTERY TOOL

•	EABC 15-900	615 165 841 0	1/4	5	13	15	3.7	9.6	11	900	1.55	3.42	36
A	EABC 26-560	615 165 842 0	3/8	5	24	26	3.7	18	19	560	1.65	3.64	36
A	EABC 32-410	615 165 843 0	3/8	7	30	32	5.2	22	24	410	1.65	3.64	36
B	EABC 45-330	615 165 844 0	3/8	9	40	45	6.6	30	33	330	1.76	3.88	36
B	EABC 50-450	615 165 845 0	3/8	9	45	50	6.6	33	37	450	2.04	4.50	36
B	EABC 60-370	615 165 846 0	1/2	10	55	60	7.4	41	44	370	2.35	5.18	36
C	EABC 75-300	615 165 847 0	1/2	12	70	75	8.8	52	55	300	2.94	6.48	36
C	EABC 95-240	615 165 848 0	1/2	19	90	95	14	66	70	240	2.98	6.57	36

• Battery not included in standard offering

• Battery 36V, 2.1Ah - Weight: 0.60 kg (1.32lb)



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Accessories

EPBcom / EABcom

ACCESSORIES INCLUDED

	EPBcom
• Pistol protective cover - Black	615 211 019 0

OPTIONAL ACCESSORIES

ITEM	EPBcom	EABcom
------	--------	--------

Battery type

1	Li-ion Battery 18V 2.1 Ah - 0.35 kg (0.77lb)	615 812 099 0	
2	Li-ion Battery 18V 4.2 Ah - 0.60 kg (1.32lb)	615 812 100 0	
3	Li-ion Battery 36V 2.1 Ah - 0.60 kg (1.32lb)	615 811 924 0	615 811 924 0

Charger

4	For Li-ion Battery 18 / 36V - 100 / 240V	615 811 654 5	615 811 654 5
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Protective covers - Tools

5	For Angle head EAB 15		615 211 003 0
5	For Angle head EAB 26/32		615 573 207 0
5	For Angle head EAB 45/50		615 573 208 0
5	For Angle head EAB 60		615 573 209 0
5	For Angle head EAB 75/95		615 573 210 0
6	For Pistol EPB - Red	615 211 022 0	

Protective covers - Battery

7	For Battery 18V 2.1Ah - Clear	615 396 871 0	
7	For Battery 18V 2.1Ah - Black	615 211 041 0	
7	For Battery 18V 2.1Ah - Blue	615 211 042 0	
7	For Battery 18V 2.1Ah - Red	615 211 043 0	
7	For Battery 18V 2.1Ah - rey	615 211 044 0	
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Clear	615 396 872 0	615 396 872 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Black	615 211 046 0	615 211 046 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Blue	615 211 047 0	615 211 047 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Red	615 211 048 0	615 211 048 0
7	For Battery 18V 4.2Ah / 36V 2.1Ah - Grey	615 211 049 0	615 211 049 0

Miscellaneous

8	Nose crowfoot adapter for EPB.	615 565 518 0	
9	eDOCK	615 811 976 0	615 811 976 0
10	Barcode Reader for EPB.	615 812 281 0	
	• Access point Wifi7 802.11N-US:	615 811 417 5	615 811 417 5
	• Access point Wifi7 802.11N-EU:	615 811 419 5	615 811 419 5
	• Plug UK	615 917 202 0	615 917 202 0
11	Side handle	615 397 016 0	

Desoutter Tool holster

12	DTH TWIN (single) without rail	615 811 411 0	
13	DTH TWIN rail kit with 2 Twin holders	615 811 412 5	
14	DTH TWIN stand kit with 2 Twin holders	615 811 413 5	
15	DTH90	615 812 119 0	



Workgroup System

A multi spindle machine up to 14 fixtured spindles

One **TWINCVI3** or One **CVI3** Vision as a primary controller to synchronize and collect results from all controllers
 Several **TWINCVI3** or/and **CVI3** Vision or/and **CVI3** Function as Secondary controllers

All connection to the Primary:

- Ethernet network (CVI3 Config, CVI NET Web, Open protocol, HMI, etc....)
- Fieldbus like Profibus, Profinet, Ethernet IP, Devicenet, etc...
- 8 inputs and 8 outputs and much more with I/O expander
- eBus for:
 - Operator panel
 - Stack light
 - Socket tray
 - I/O expander

FIXTURED SPINDLES

- EFDE:** straight with telescopic output
 - EFDS:** straight without telescopic output
 - EFDA:** angle head
- Fully compatible with EME range via the adaptor



BENEFITS

Flexibility thanks to the use of standard controllers with an additional ePod3
 Synchronization of the controllers via the integrated Ethernet network



ACCESSORIES	PART NO.
Cables for EFDx tools	
Toolcable 2.5m (8.2ft)	615 917 651 0
Toolcable 5m (16ft)	615 917 652 0
Toolcable 10m (32.8ft)	615 917 654 0
Toolcable 15m (49.2ft)	615 917 655 0
Extension cable	
Extension cable 8m (26.2ft)	615 917 581 0
Extension cable 16m (52.5ft)	615 917 584 0
Extension cable 32m (105ft)	615 917 587 0
Extension cable 50m (164ft)	615 917 589 0
Transducer holders for EFDE tools	
3/8" Square drive EFDE43	615 396 426 0
1/2" Square drive EFDE51/60-95	615 396 427 0
3/4" Square drive EFDE60-175/250	615 396 428 0
Miscellaneous	
Spare transducer cable length 340mm (13.4")	615 917 426 0

Workgroup System

CVI3
suite



CVI
CONFIG

CVI
ANALYZER

CVI
NET WEB

CVI
KEY



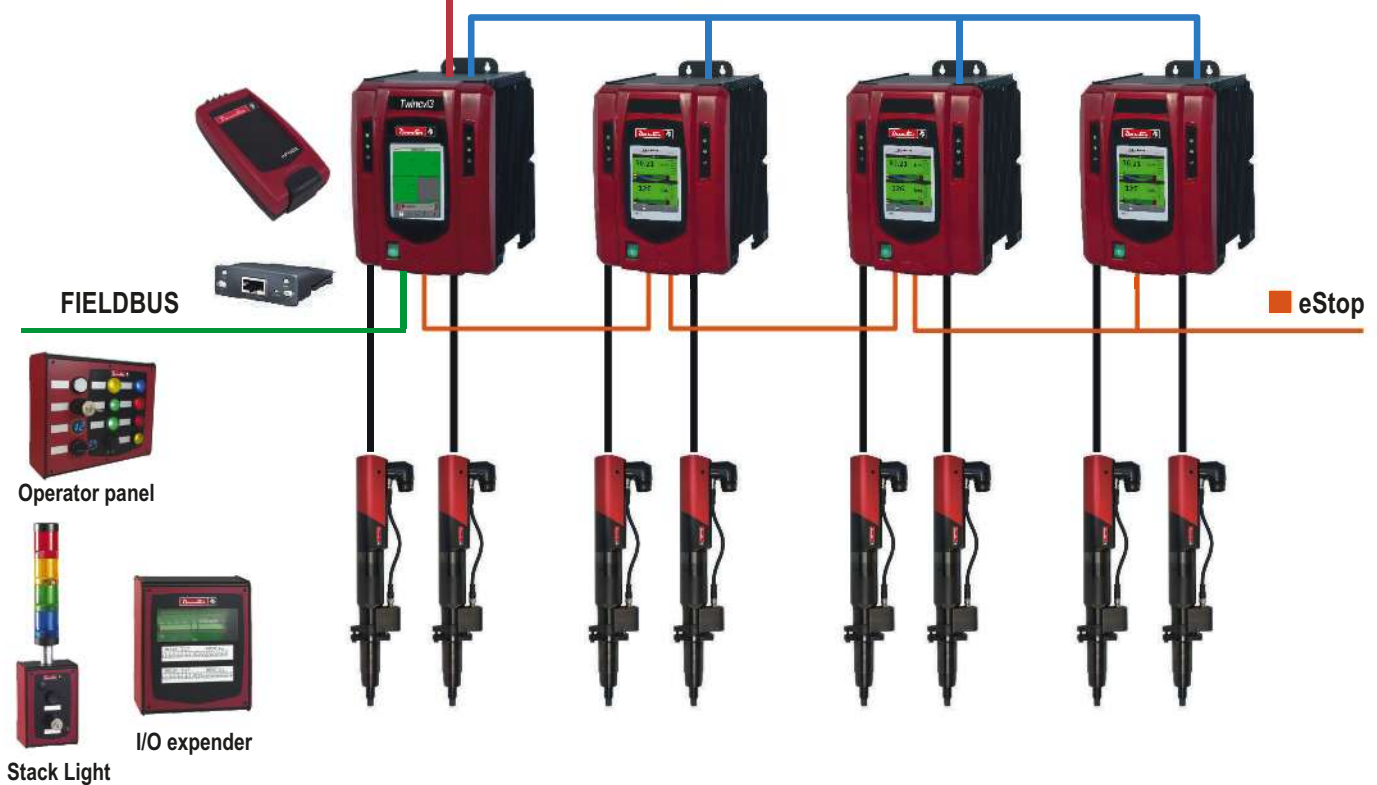
Advanced tightening strategies

- Optimization of tightening via CVI Config
- Torque and/or Angle control
- Yield point
- Plastic zone
- Redundant T&A transducer



FACTORY ETHERNET NETWORK

INTERNAL ETHERNET NETWORK



Advanced monitoring

- The primary controller displays all tightening results and events and its own tightening curves.
- Each controller displays its own results, curves and events.

Advanced Process control

- Multi tightening programs, 250 Psets with 40 steps, for all spindles or per group of spindles, action/retry in case of NOK.
- Assembly Process to manage multi Pset and simple processes.
- A soft PLC (CVI Logix) is integrated for more complex processes



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Fixtured electric spindles - CVI3

1 to 280 Nm (0.7 to 206 ft.lb) - 409 to 2000 rpm

EFdx-TA, spindles with second transducer, are available in standard. For further details, please visit www.desouttertools.com



desoutter.info/EFdx-TA



MODEL	LENGTH				D		WEIGHT			
	TOOL-L		MODULE-L1		mm	in.	TOOL		MODULE	
	mm	in.	mm	in.			kg	lb.	kg	lb.
EFDE/EFDS 43-8	276	10.9	165	6.5	10	0.39	2.1	4.63	0.65	1.43
EFDE/EFDS 43-15	276	10.9	165	6.5	10	0.39	2.1	4.63	0.65	1.43
EFDE/EFDS 43-30	311	12.2	165	6.5	10	0.39	2.3	5.07	0.65	1.43
EFDE/EFDS 43-45	311	12.2	165	6.5	10	0.39	2.3	5.07	0.65	1.43
EFDE/EFDS 51-70	357	14.0	183	7.2	16	0.63	3.9	8.60	1.45	3.20
EFDE/EFDS 51-135	357	14.0	183	7.2	16	0.63	3.9	8.60	1.45	3.20
EFDE/EFDS 60-95	373	14.7	183	7.2	16	0.63	5.3	11.7	1.45	3.20
EFDE/EFDS 60-175	373	14.7	203	8.0	16	0.63	5.3	11.7	1.87	4.12
EFDE/EFDS 60-250	373	14.7	203	8.0	16	0.63	5.3	11.7	1.87	4.12

 **ACCESSOIRES**
see page 42

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE						ROTATIONAL SPEED	TELESCOPIC STROKE		MIN. CENTRE DISTANCE	
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		mm	in.	mm	in.

EFDE – With removable telescopic module

A	EFDE 43-8	615 165 864 0	3/8	1	8	10	0.7	5.9	7.4	2000	50	1.97	43	1.69
A	EFDE 43-15	615 165 865 0	3/8	3	15	17	2.2	11.1	12.5	2000	50	1.97	43	1.69
A	EFDE 43-30	615 165 866 0	3/8	7	30	32	5.2	22.1	23.6	1454	50	1.97	43	1.69
A	EFDE 43-45	615 165 867 0	3/8	7	45	50	5.2	33.2	36.9	1112	50	1.97	43	1.69
A	EFDE 51-70	615 165 868 0	1/2	20	70	80	14.7	51.6	59	816	50	1.97	51	2.01
A	EFDE 51-135	615 165 869 0	1/2	30	135	150	22.1	99.6	111	463	50	1.97	51	2.01
A	EFDE 60-95	615 165 870 0	1/2	22	95	105	16.2	70.1	77.4	1055	50	1.97	60	2.36
A	EFDE 60-175	615 165 871 0	3/4	50	175	190	36.9	129	140	575	50	1.97	60	2.36
A	EFDE 60-250	615 165 872 0	3/4	55	250	280	40.6	184	206	409	50	1.97	60	2.36

EFDS – With integrated telescopic output

B	EFDS 43-8	615 165 907 0	3/8	1	8	10	0.7	5.9	7.4	2000	50	1.97	43	1.69
B	EFDS 43-15	615 165 908 0	3/8	3	15	17	2.2	11.1	12.5	2000	50	1.97	43	1.69
B	EFDS 43-30	615 165 909 0	3/8	7	30	32	5.2	22.1	23.6	1454	50	1.97	43	1.69
B	EFDS 43-45	615 165 910 0	3/8	7	45	50	5.2	33.2	36.9	1112	50	1.97	43	1.69
B	EFDS 51-70	615 165 911 0	1/2	20	70	80	14.7	51.6	59	816	50	1.97	51	2.01
B	EFDS 51-135	615 165 912 0	1/2	30	135	150	22.1	99.6	111	463	50	1.97	51	2.01
B	EFDS 60-95	615 165 913 0	1/2	22	95	105	16.2	70.1	77.4	1055	50	1.97	60	2.36
B	EFDS 60-175	615 165 914 0	3/4	50	175	190	36.9	129	140	575	50	1.97	60	2.36
B	EFDS 60-250	615 165 915 0	3/4	55	250	280	40.6	184	206	409	50	1.97	60	2.36



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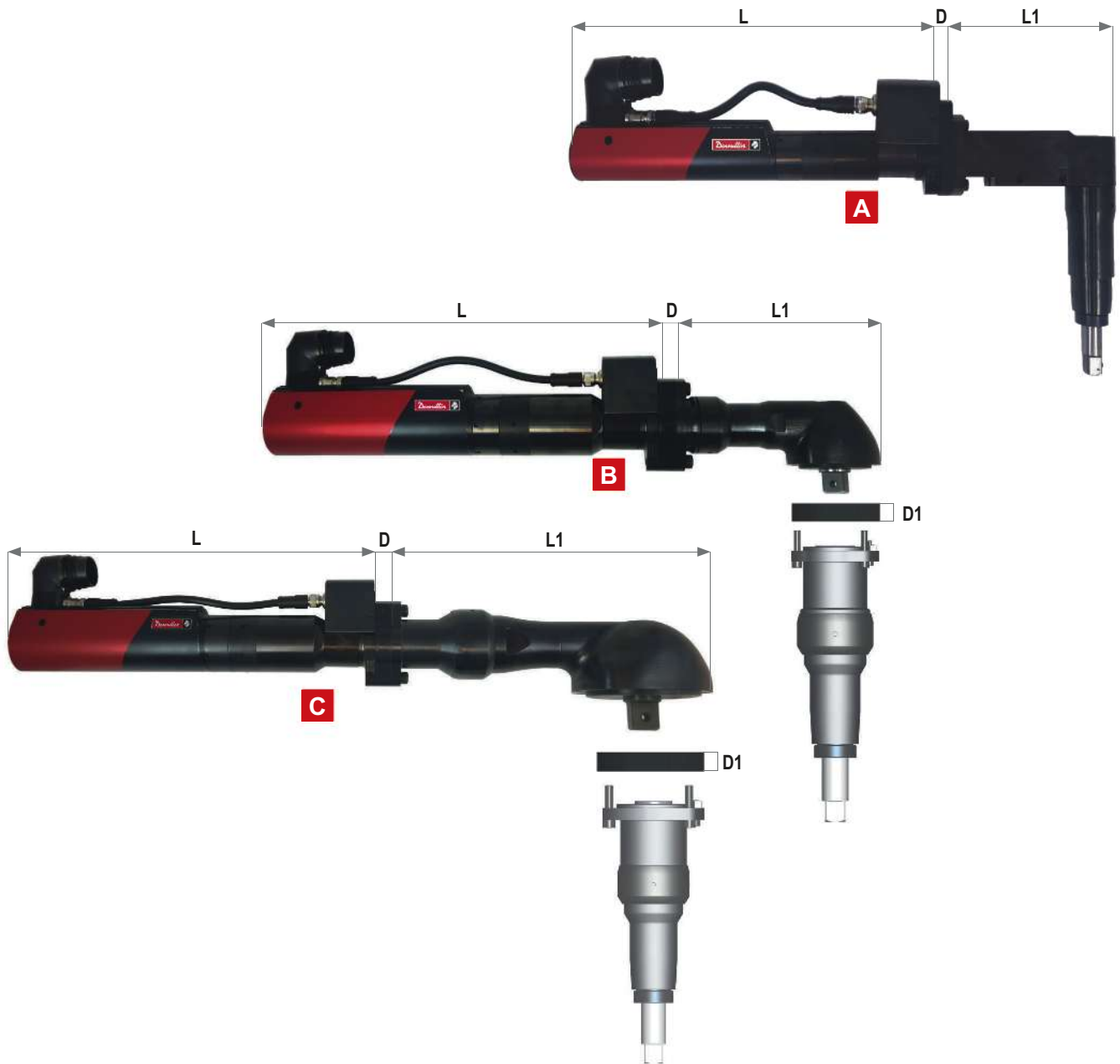
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Fixtured electric spindles - CVI3

12 to 580 Nm (8.8 to 428 ft.lb) - 170 to 720 rpm



TELESCOPIC STROKE	LENGTH L2		D1		PART NO.	FOR MODEL	D		
	mm	in.	mm	in.			mm	in.	
40	1.57	203	8.0	12	0.47	615 398 076 0	EFDA51-110	16	0.63
40	1.57	217	8.5	12	0.47	615 398 077 0	EFDA63-190	16	0.63
40	1.57	215	8.4	15	0.59	615 398 078 0	EFDA76-300	16	0.63
50	1.97	270	10.6	15	0.59	615 398 161 0	EFDA107-450	16	0.63

ACCESSOIRES
see page 42

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE						ROTATIONAL SPEED	MIN. CENTRE DISTANCE		LENGTH				WEIGHT	
				MIN.	RECOM-MENDED	MAX.	MIN.	RECOM-MENDED	MAX.		TOOL L	ANGLE HEAD L1	kg	lb.				
			in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm	mm	in.	mm	in.	mm	in.	kg	lb.

EFDA - Angle headed tools with integrated telescopic module																		
A	EFDA40-55	615 165 858 0	3/8	12	55	65	8.8	40.6	47.9	720	40	1.57	311	12.2	139	5.5	3.7	8.1

EFDA - Angle headed tools without telescopic module																		
B	EFDA51-110*		1/2	45	110	150	33.2	81.1	111	590	51	2.01	373	14.7	168	6.6	7.2	15.8
B	EFDA63-190	615 165 860 0	3/4	80	190	250	59	140	184	320	63	2.48	373	14.7	191	7.5	8.1	17.8
B	EFDA76-300*		3/4	100	300	380	73.7	221	280	270	76	2.99	373	14.7	284	11.2	9.7	21.3
C	EFDA107-450	615 165 860 0	1	150	450	580	112	330	420	450	100	3.94	373	14.7	322	12.7	12.4	27.3

Accessories

Cable for ERP / EAD / EID / EFDE / EFDS / EFDA



CABLE FOR ERP TOOLS	PART NO.
Nutranner cable 2.5m (8.2ft)	615 917 570 0
Nutranner cable 5m (16ft)	615 917 492 0
Nutranner cable 10m (32.8ft)	615 917 494 0
Nutranner cable 15m (49.2ft)	615 917 495 0

CABLE FOR EAD & EID TOOLS	PART NO.
Tool cable 2.5m (8.2ft)	615 917 601 0
Tool cable 5m (16ft)	615 917 602 0
Tool cable 10m (32.8ft)	615 917 604 0
Tool cable 15m (49.2ft)	615 917 605 0
Tool cable eFLEX 2.5m (8.2ft)	615 917 631 0
Tool cable eFLEX 5m (16.4ft)	615 917 632 0



CABLE FOR EFDE & EFDA TOOLS	PART NO.
Tool cable 2.5m (8.2ft)	615 917 651 0
Tool cable 5m (16ft)	615 917 652 0
Tool cable 10m (32.8ft)	615 917 654 0
Tool cable 15m (49.2ft)	615 917 655 0

EXTENSION CABLE FOR ERP TOOLS	PART NO.
Extension cable 5m (16ft)	615 917 083 0
Extension cable 10m (32.8ft)	615 917 084 0
Extension cable 15m (49.2ft)	615 917 085 0
Extension cable 20m (65.6ft)	615 917 086 0
Extension cable 25m (82ft)	615 917 087 0
Extension cable 30m (98ft)	615 917 088 0



EXTENSION CABLE FOR EAD - EID - EFDE & EFDA TOOLS	PART NO.
Ext. cable 8m (26.2ft)	615 917 581 0
Ext. cable 16m (52.5ft)	615 917 584 0
Ext. cable 32m (105ft)	615 917 587 0
Ext. cable 50m (164ft)	615 917 589 0



eBUS CABLE	PART NO.
eBUS cable 1m (3.3ft)	615 917 621 0
eBUS cable 3m (9.9ft)	615 917 622 0
eBUS cable 5m (16.4ft)	615 917 623 0
eBUS cable 15m (49.2ft)	615 917 624 0
eBUS Termination plug	615 917 625 0

TRANSDUCER HOLDERS FOR EFDE TOOLS	PART NO.
3/8" Square drive EFDE43	615 396 426 0
1/2" Square drive EFDE51/60-95	615 396 427 0
	615 396 428 0



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Accessories



CVI3 Controllers

OPTIONAL ACCESSORIES

ITEM	PART NO.	
Controllers		
1	Socket tray with tubes & inserts	615 936 095 0
2	Kit tubes & Inserts for Socket tray	615 398 035 5
3	Bit holder module for Socket tray	615 398 083 5
4	Bit Tray	615 936 080 0
5	Operator Panel (advanced)	615 936 072 0
6	Stack Light	615 936 073 0
7	I/O Expander	615 936 074 0
	• Y cable for RS232 port	615 917 620 0

ERP / EAD / EID

OPTIONAL ACCESSORIES

ITEM	PART NO.	
Suspension bail		
8	Non swivelling - All tools up to EAD105/EID75	615 397 412 0
9	Swivelling - All tools up to EAD105/EID75	615 397 413 0
9	Swivelling - for tools EAD160/200/280-260 & EID120	615 571 072 0
Front trigger		
10	Mechanical kit for tools EAD20 to EAD105 & EID25 to EID75 (must be mounted on tool by authorized Desoutter service technician)	615 397 812 5
10	Electric kit for EAD20 to EAD32 & EID25 to EID32	615 911 013 5
10	Electric kit for EAD50 to EAD105 & EID44 to EID75	615 911 012 5
Telescopic output for EID tools		
11	3/8" for EID25/32	615 397 811 0
11	3/8" for EID44	615 398 178 0
11	1/2" for EID65/75	615 398 079 0
11	1/2" for EID120/170	615 398 080 0
11	3/4" for EID270/300	615 398 081 0
Telescopic output for EAD / EFDA tools		
12	1/2" for EAD160	615 398 076 0
12	3/4" for EAD200/280 & EFDA63-190	615 398 077 0
12	3/4" for EAD440	615 398 078 0
12	1" for EFDA107-450	615 398 161 0
Angle head protection for EAD tools		
13	For EAD20/32	615 573 207 0
13	For EAD50	615 573 208 0
13	For EAD70	615 573 209 0
13	For EAD80/105	615 573 210 0
In-line protection for EID tools		
14	For EID25/32	615 573 211 0
14	For EID44/65/75	615 573 212 0
Finger Protection for EAD tools		
15	For EAD20/32	615 397 635 0
15	For EAD50	615 397 636 0
15	For EAD70	615 397 637 0
Miscellaneous		
16	Handle lever	615 397 831 0
17	Trigger locker	615 397 842 0
	• Barcode reader -- Tool module - EAD/EID	615 811 896 0
	• Mounting plate for custom arm - EAD160/200/280/440/660	Contact Desoutter
Desoutter Tool Holster		
18	DTH42 (For ERP3/5/10/20/30)	107892
19	DTH90 (For ERP3/5/10/20/30)	615 812 119 0
20	DTH TWIN (single) without rail	615 811 411 0
21	DTH TWIN rail kit with 2 Twin holders	615 811 412 5
22	DTH TWIN stand kit with base & 2 Twin holders	615 811 413 5
	• D53 arms	See page 148
	• TRA telescopic reaction arms	See page 156
	• Balancers	See page 162

ADAPTER FOR ERAL/ERDI/ERP AND EME	PART NO.
	615 936 070 0



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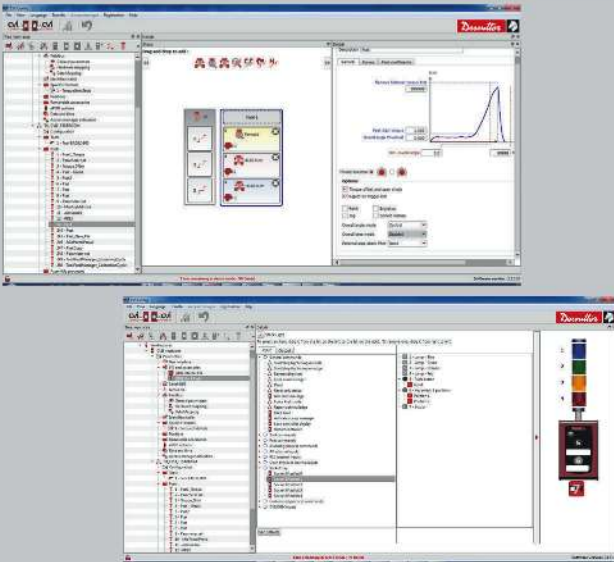
Desoutter



Programming and Real Time Monitoring Software

CVI CONFIG - PROGRAMMING (INCLUDING CVI MONITOR)

CVIKEY - ACCESS LEVEL MANAGEMENT



FEATURES

CVI CONFIG to set any point to point or via network with an intuitive and guided interface

User-friendly interface

- Configurable complete Assembly line view in the tree area
- Easy Tool/PSet setting including Quick Pset & learning mode
- PSet steps definition with drag&drop feature and intuitive settings with curve template
- Fast learning curve with contextual help
- Real time error-proofing consistency check

Advanced process control

- Complete process logic mapping including tightening & non-tightening operations with Assembly Process

High flexibility

- Dynamic mapping for I/O, fieldbus with drag&drop feature
- Including Geopositioning set up
- 2 ways transfer of all parameters between stations & PC
- Real time access to tool parameters/counters (partial/total number of cycles performed by the tool/cable)
- Test mode to check torque transducer, angle encoder, brushless motor
- Complete backup/restore of stations

CVI MONITOR (included in CVI CONFIG) to monitor results, maintenance and diagnostic in real time

Real-time Monitor

- Results
- Curves
- Statistics
- Export in csv format

Maintenance

- read the counters of the tools, controller and cables
- set preventive maintenance alarms
- reset the counters and alarms
- tool calibration
- autocalibration with Delta 6D

User info History

- Alarms history (logs)
- Problem solving guidance

CVIKEY to create & manage tailor-made access rights per user profile

Tailor made protection

- Intuitive software to create/manage access level
- Protection guaranteed by unique profile keys created by the administrator (locked against copy)

Simple interface

- Plug&Play USB key
- 4 profiles already available by default

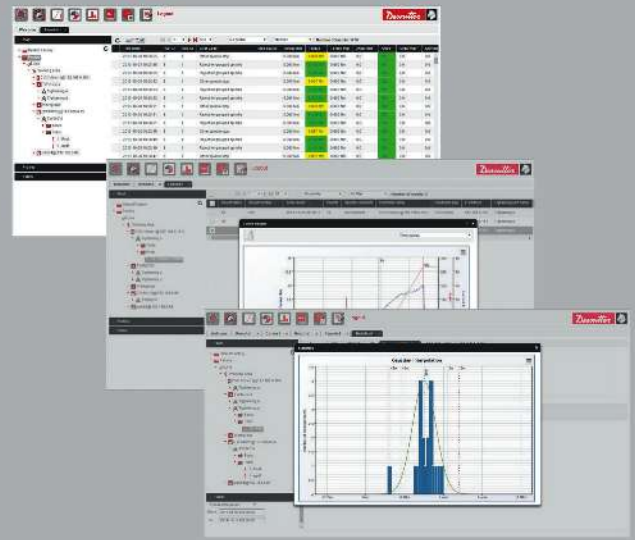
High flexibility

- Unlimited number of profiles
- Set up the right access level for the right

Traceability and Data Collection Software

CVI ANALYZER - TIGHTENING DATA ANALYSIS

CVI NET WEB - DATA COLLECTION



FEATURES

CVI ANALYZER to import tightening data and analyze results thanks to customized filter and report.

Flexibility

- Complete Factory and Assembly line layout definition
- Multi User Profiles definition
- Complete Factory and Assembly line layout definition
- Multi User Profiles definition
- Advanced customized filter definition
- Advanced data searching
- Multi tab view

Traceability

- Unlimited CVI3 results and curves collection in local DB through plant network
- Complete back-up solution
- PSet history
- Including data import from USB key
- Result and Curve export in cvs format

Analysis

- OK/NOK distribution
- NOK distribution reasons analysis

CVI NET WEB to collect in real time 100% tightening data in server database and review with web based interface. Any PC connected to network can access to results without any software installation on different client, it's enough to type web page address.

Full Traceability

- Real Time result and curve collection
- Real Time tightening errors
- Data storage in Server architecture
- SQL Server, Oracle, MySQL support
- Automatic uploading of missing data from Controller
- Alarm in case of disconnection and FIFO inside controllers
- Curve overlay

Statistical Analysis and Documentation

- Advanced OK/NOK reports and control charts
- Advanced NOK pareto analysis
- Cm/Cmk analysis according different standards (ISO, CNOMO, NF)

Flexibility

- Administrator User
- Customized Profiles and Filters
- Complete Plant layout definition
- Smart Identifier filtering

Report printing

- Export all results and curve directly from web page
- PDF, csv or txt export format
- Direct Printing from web page
- Printing of all tightening of a vehicle or a components by scanning the proper bar code



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CVix II Range

Transducerized Tools

Handheld Tools

- Brushless AC motor: virtually maintenance free
- Resolver: smooth angle control at any speed
- 6 leds OK / NOK signals

Fixtured electric spindles

- Long life gear boxes
- Brushless motor
- High output torque transducer for a larger torque range



Controllers



Communication

CVIPC2000 software is a user friendly tool able to program tightening cycles, collect and display results and curves

CVINET WEB to collect & store 100% tightening data in real-time database with advanced analytics via a web based software in service mode from all Desoutter tightening controllers



Controller - CVIR II-H4



Optional Kit IP54 CVIx2

MAIN FUNCTIONS	CVIR II H4
Programming modes	
Number of cycles	50
Number of phases	15
Reverse	✓
1 sequence	8 cycles
Batch count	999
Barcode reading (cycle selection)	✓
LCD screen and display	✓
CVIPC software	✓
Phases characteristics	
Search sequence	✓
Run down speed phase	✓
Final speed phase	✓
Jump to another phase	✓
Cycle characteristics	
Autorized directions	✓
Disengagement parameters	✓
Tigting results	
Led "Low", "OK", "High" Torque	✓
Led "Low", "OK", "High" Angle	✓
Torque+Angle+Date+Time+Report	2000 to 10000 according to configuration
Number of curves	10
Tightening strategies	
Torque control	✓
Torque control + Angle monitoring	✓
Angle control + Torque monitoring	✓
Maintenance	
Access to all tool memory parameters	✓
Autotest of the complete system	✓
Calibration of the tool (supervisor mode)	✓

MODEL	PART NUMBER	TOOLS	CONSUMPTION (CURRENT)		MAINS SUPPLY	DIMENSIONS						WEIGHT	
			115 V	230 V		WIDTH		HEIGHT		DEPTH		kg	lb.
						mm	in.	mm	in.	mm	in.		
CVIR II H4	615 932 685 0	ERP-HT	4A	2A	Single-phase	130	5.1	278	10.9	291	11.5	5.9	13

Software, Upgrade kits...

POWER CORD
to be ordered with the controller

PLUG	DESCRIPTION	PART NO.
A	European	615 917 201 0
B	US	615 917 203 0
C	UK	615 917 202 0
D	Chinese	615 917 206 0



Software

MODEL	PART NO.
CVI PC2000-STD 1 install	615 927 522 0
CVI PC2000 advance 1 install	615 927 523 0
CVINET WEB 1 controller	615 927 736 0
Open Protocol 5 licences	



OPTIONAL ACCESSORIES

	PART NO.
• Kit IP54 CVIx2	615 932 684 5
• Shelf support - Aluminium profile	615 397 403 5

Fieldbus / Protocol

MODEL	PART NO.
Ethernet IP Module	615 927 594 0
Profibus DP Module	615 927 595 0
ProfiNet Module (1 port)	615 927 596 0
ProfiNet Module (2 ports)	615 927 597 0
CC-Link Module	615 927 598 0
Devicenet Module	615 927 599 0
	615 927 615 0

Electric transducerized High torque - CVIR II

75 to 1700 Nm (55 to 1253 ft.lb) - 85 to 822 rpm

The transducerized nutrunners range ERP is dedicated to high torque applications, especially structural assemblies requiring accuracy and traceability



A



B



C



desoutter.info/ERP

PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE RANGE				SPEED	GEARBOX DIAMETER		LENGHT		WEIGHT		SPLINE
				MIN.	MAX.	MIN.	MAX.		mm	in.	mm	in.	kg	lb	
A	ERP250	615 165 883 0	3/4	75	250	55	184	822	54	2.13	355	13.9	5.1	11.2	3
B	ERP500	615 165 884 0	3/4	150	500	110	368	347	67	2.64	390	15.3	5.8	12.8	4
C	ERP750	615 165 885 0	1	225	750	165	553	245	67	2.64	410	16.1	6.2	13.7	5
C	ERP1000	615 165 886 0	1	300	1000	221	737	205	67	2.64	420	16.5	6.4	14.1	5
•	ERP1700	615 165 887 0	1	510	1700	376	1253	85	84	3.31	455	17.9	8.3	18.3	9

OPTIONAL ACCESSORIES



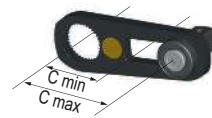
REACTION BARS	SPLINE	1 STRAIGHT	2 S-TYPE	3 L TYPE ALUMINIUM	4 SQUARE	5 SLIDING DRIVE	6 SLIDING DRIVE EXTENDED C-C	7 SUSPENSION BAIL
ERP250	3	615 812 097 5	615 812 068 5	615 812 072 5	615 812 057 5	615 812 113 5	N/A	615 812 123 0
ERP500	4	615 812 054 5	615 812 069 5	615 812 073 5	615 812 058 5	615 812 062 5	615 812 063 5	615 812 123 0
ERP750 / ERP1000	5	615 812 055 5	615 812 070 5	N/A	615 812 059 5	615 812 064 5	615 812 065 5	615 812 123 0
ERP1700	9	615 812 056 5	615 812 071 5	N/A	615 812 060 5	615 812 066 5	615 812 067 5	615 812 123 0



NUTRUNNER CABLE	PART NO.
Tool cable 3m (9.8ft)	615 917 461 0
Tool cable 5m (16ft)	615 917 462 0
Tool cable 10m (32.8ft)	615 917 464 0
Tool cable 15m (49.2ft)	615 917 465 0



EXTENSION CABLE	PART NO.
Ext. cable 5m (16ft)	615 917 222 0
Ext. cable 10m (32.8ft)	615 917 223 0



Slidding drive C-C

PART NO.	C MIN	C MAX
	mm (in.)	mm (in.)
615 812 113 5	70 (2.76)	120 (4.72)
615 812 062 5	76 (3)	126 (4.96)
615 812 063 5	82 (3.23)	218 (8.58)
615 812 064 5	80 (3.15)	125 (4.92)
615 812 065 5	82 (3.23)	218 (8.58)
615 812 066 5	80 (3.15)	130 (5.11)
615 812 067 5	80 (3.15)	280 (11.0)



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Desoutter

Controller - CVIR II

Error proofing and flexibility

Advanced control unit with flexibility and technology

- Easy integration into your assembly line with multiple choices of connectivity



COMMUNICATION

- 1 Ethernet port for CVIPC or network communication
- 1 RS232 port to connect barcode readers or CVIPC 2000
- 8 Inputs and 8 Outputs
- 1 Optional fieldbus module

Innovative Tightening Strategy

Seating detection

Detect the screw head contact on your part by torque rate management, even with material variation



QUALITY GUARANTEED

MODEL	PART NUMBER	TOOLS	CONSUMPTION (CURRENT)		MAINS SUPPLY	DIMENSIONS						WEIGHT	
			115 V	230 V		WIDTH		HEIGHT		DEPTH		kg	lb.
CVIR II	615 932 681 0	ERS/ECS	4A	2A	50/60 hertz	mm	in.	mm	in.	mm	in.	kg	lb.
					Single-phase	130	5.1	278	10.9	291	11.5	5	11

MAIN FUNCTIONS	CVIR II
Programming modes	
Quick cycle	✓
Learning mode	✓
Number of cycles	50
Number of phases available	15
Phase characteristics	
Search sequence	✓
Approach	✓
Run down speed	✓
Final speed phase	✓
Action on NOK	✓
Run reverse	✓
Jump to another phase	✓
Prevailing Torque	✓
Synchronisation phase	✓
Tightening strategies	
Torque	✓
Torque with angle monitoring	✓
Angle with torque monitoring	✓
Yield point	✓
Seating detection	✓
Number of stored results	2000 to 10000 according configuration

Software, Upgrade kits...

POWER CORD

to be ordered with the controller

PLUG	DESCRIPTION	PART NO.
A	European	615 917 201 0
B	US	615 917 203 0
C	UK	615 917 202 0
D	Chinese	615 917 206 0



Software

MODEL	PART NO.
CVI PC2000-STD 1 install	615 927 522 0
CVI PC2000 advance 1 install	615 927 523 0
CVINET WEB 1 controller	615 927 524 0
Open Protocol 5 licences	615 927 525 0

OPTIONAL ACCESSORIES

	PART NO.
• PC cable length 2 m (78.7")	615 917 047 0
• 37 pin D-Sub female I/O adapter	615 919 003 0
• Shelf support - Aluminium profile	615 397 403 5

Fieldbus / Protocol

MODEL	PART NO.
Ethernet IP Module	615 927 594 0
Profibus DP Module	615 927 595 0
ProfiNet Module (1 port)	615 927 596 0
ProfiNet Module (2 ports)	615 927 597 0
CC-Link Module	615 927 598 0
DeviceNet Module	615 927 599 0
Modbus Module	615 927 615 0



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Electric transducerized screwdrivers - CVIR II

0.6 to 27 Nm (5.3 to 239 ft.lb) – 280 to 3000 rpm

The transducerized screwdrivers range ERS is dedicated for all type of tightening which required accuracy and traceability



A



B



C

Visible & Programmable reporting LED System



Good Report



Bad Report



Programmable

Tool Ready, Tool in Cycle, Maintenance Alert, and more.

ACCESSORIES
see page 59



To connect with CVI3 controller, ERS module is needed

PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE				SPEED	WEIGHT	
				MIN.	MAX.	MIN.	MAX.		kg	lb
			in.	Nm	Nm	ft.lb	ft.lb	rpm		
A	ERS2	615 165 688 0	Hex.1/4F	0.6	2.5	5.3	22.1	3000	0.7	1.54
A	ERS6	615 165 689 0	Hex.1/4F	1.0	6.0	8.8	53.1	1725	0.7	1.54
A	ERS12	615 165 690 0	Hex.1/4F	1.5	12	13.3	106.2	950	0.7	1.54
A	ERS2-M20	615 165 691 0	Hex.1/4F	0.6	2.5	5.3	22.1	3000	0.7	1.54
A	ERS6-M20	615 165 692 0	Hex.1/4F	1.0	6.0	8.8	53.1	1725	0.7	1.54
A	ERS12-M20	615 165 693 0	Hex.1/4F	1.5	12	13.3	106.2	950	0.7	1.54
A	ERS22-M20	615 165 916 0	Sq.3/8	6.0	22	53.1	194.7	380	1.05	2.31
B	ERSA2	615 165 697 0	Hex.1/4F	0.6	2.5	5.3	22.1	2500	1.0	2.2
B	ERSA6	615 165 698 0	Hex.1/4F	1.0	6.0	8.8	53.1	1450	1.0	2.2
B	ERSA12	615 165 699 0	Hex.1/4F	2.0	12	17.7	106.2	800	1.0	2.2
B	ERSA27	615 165 917 0	Sq.3/8	8.0	27	70.8	239	280	1.25	2.75
C	ERSF2	615 165 694 0	Hex.1/4F	0.6	2.5	5.3	22.1	3000	0.7	1.54
C	ERSF6	615 165 695 0	Hex.1/4F	1.0	6.0	8.8	53.1	1725	0.7	1.54
C	ERSF12							50	0.7	1.54



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Controller - CVIL II

Flexible integration



Optional fieldbus module

RS232 connector
• Barcode
• CVI PC 2000
• Results reports

I/O port
• 7 inputs
• 8 outputs
Emergency stop cat.2 level D



Ethernet port
8 sockets
CVIPC 2000
CVINET
Others

GFI
Circuit breaker

Tool connector
Hand held tools or
Fixtured spindles

Auto switch - main supply
110 to 240Volts

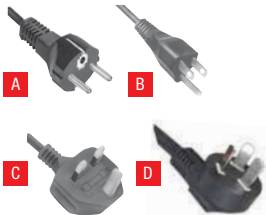
FEATURES	CVIL II
General functions	
Number of cycles	50
Number of phases	15
Batch count	999
Bar code reading via RS232 port	✓
Programming	
LCD screen and display	✓
CVIPC software	✓
Tightening results	
Led "Low", "OK", "High" Torque	✓
Led "Low", "OK", "High" Angle	✓
Torque+Angle+Data+Time+Report	up to 10 000
Number of curves (flexibility with OK and NOK)	10

MODEL	PART NUMBER	CONSUMPTION (CURRENT)		MAINS SUPPLY	DIMENSIONS						WEIGHT	
		115 V	230 V		WIDTH		HEIGHT		DEPTH		kg	lb.
CVIL II	615 932 680 0	4A	2A	50/60 hertz	mm	in.	mm	in.	mm	in.	5.9	13

Software, Upgrade kits...

POWER CORD to be ordered with the controller

PLUG	DESCRIPTION	PART NO.
A	European	615 917 201 0
B	US	615 917 203 0
C	UK	615 917 202 0
D	Chinese	615 917 206 0



Software

MODEL	PART NO.
CVI PC2000-STD 1 install	615 927 522 0
CVI PC2000 advance 1 install	615 927 523 0
CVINET WEB 1 controller	615 927 736 0
Open Protocol 5 licences	

OPTIONAL ACCESSORIES

	PART NO.
• PC cable length 2 m (78.7")	615 917 047 0
• 37 pin D-Sub female I/O adapter	615 919 003 0
• Shelf support - Aluminium profile	615 397 403 5

Fieldbus / Protocol

MODEL	PART NO.
Ethernet IP Module	615 927 594 0
Profibus DP Module	615 927 595 0
ProfiNet Module (1 port)	615 927 596 0
ProfiNet Module (2 ports)	615 927 597 0
CC-Link Module	615 927 598 0
DeviceNet Module	615 927 599 0
	615 927 615 0

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Electric pulse tools - ELRT

10 to 25 Nm (7.4 to 18.4 ft.lb) - 4600 rpm



desoutter.info/ELRT



A



B



ADVANCED ERGONOMICS

- Reaction free
- Soft grip and slim handle
- Low weight tool



INCREASED PRODUCTIVITY

- Max. speed 4600 rpm
- Point and shoot solution
- Pistol tool 30% shorter time to locate bolt



OPTIMIZED MAINTENANCE

- No oil to change
- Brushless electric motor
- Long life gearbox



IMPROVED ENVIRONMENT

- Reduce CO2 emission
- Clean workspace
- Reduce energy consumption



ACCESSORIES
see page 59



PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE		SPEED	WEIGHT		LENGHT	
				Nm	ft.lb		kg	lb	mm	in.
A	ELRT025-P4600-10S	615 165 838 0	Sa. 3/8	10-25	7.4-18.4	4600	1.2	2.64	221	8.7
B	ELRT025-P4600-4Q							2.64	221	8.7



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Handheld electric tools

Pistol grip electric nutrunners

MODEL	PART NUMBER	OUTPUT DRIVE	COUPLE						ROTATIONAL SPEED	LENGTH		WEIGHT	
			MIN.	RECOM MENDED	MAX	MIN.	RECOM MENDED	MAX		mm	in.	kg	lb
		in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm				
ERP3L	615 165 193 0	Hex. 1/4 F	0.35	3	3.3	0.26	2.2	2.4	2000	196	7.7	1.0	2.2
ERP5L	615 165 194 0	Hex. 1/4 F	0.5	5	5.5	0.37	3.7	4.0	2000	196	7.7	1.0	2.2
ERP10L	615 165 195 0	Hex. 1/4 F	1.5	10	12	1.1	7.4	8.8	1540	196	7.7	1.1	2.4
ERP20L	615 165 196 0	Hex. 1/4 F	3.0	20	23	2.2	14.7	17	790	196	7.7	1.1	2.4
ERP20S	615 165 197 0	Hex. 1/4 F	3.0	20	23	2.2	14.7	17	1540	221	8.7	1.2	2.6
ERP30S	615 165 198 0	Sq. 3/8	5.0	30	30	3.7	22.1	22	1070	217	8.5	1.2	2.6
ERP40S	615 165 263 0	Sq. 3/8	6.0	40	42	4.4	29.5	31	680	274	10.8	1.7	3.7
ERP3LT	615 165 227 0	Hex. 1/4 F	0.35	3	3.3	0.26	2.2	2.4	2000	196	7.7	1.0	2.2
ERP5LT	615 165 228 0	Hex. 1/4 F	0.5	5	5.5	0.37	3.7	4	2000	196	7.7	1.0	2.2
ERP10LT	615 165 229 0	Hex. 1/4 F	1.5	10	12	1.1	7.4	8.8	1540	196	7.7	1.1	2.4
ERP20LT	615 165 230 0	Hex. 1/4 F	3.0	20	23	2.2	14.7	17	790	196	7.7	1.1	2.4



Angle head electric nutrunners

MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE						ROTATIONAL SPEED	LENGTH		WEIGHT	
			MIN.	RECOM MENDED	MAX	MIN.	RECOM MENDED	MAX		mm	in.	kg	lb
		in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm				
ERAL1.5-15	615 165 356 0	Sq. 3/8	2	15	18	1.5	11	13.3	1511	408	16.1	1.35	3.0
ERAL1.5-25	615 165 357 0	Sq. 3/8	3	20	25	2.2	14.7	18.4	1511	408	16.1	1.35	3.0
ERAL2.30	615 165 362 0	Sq. 3/8	5	20	30	3.7	14.7	22	1511	433	17	1.55	3.4
ERAL2.40	615 165 363 0	Sq. 3/8	7	30	40	5.2	22	29.5	1169	433	17	1.6	3.5
ERAL2-60	615 165 364 0	Sq. 3/8	8	45	60	5.9	33	44	918	443	17.5	1.7	3.7
ERAL2-80	615 165 365 0	Sq. 3/8	10	65	80	7.4	48	59	750	455	17.9	1.8	4.0
ERAL2-80 SQ1/2	615 165 406 0	Sq. 1/2	10	65	80	7.4	48	59	750	455	17.9	1.8	4.0
ERAL4-90	615 165 384 0	Sq. 1/2	15	70	90	11	51.6	66	690	552	21.7	3.5	7.7
ERAL4-110	615 165 385 0	Sq. 1/2	20	90	110	14.7	66	81	540	552	21.7	3.5	7.7
ERAL4-120	615 165 386 0	Sq. 1/2	25	115	120	18.4	85	88.4	380	552	21.7	3.5	7.7
ERAL4-140	615 165 387 0	Sq. 1/2	30	125	140	22	92	103	360	554	21.8	3.7	8.1
ERAL4-170	615 165 388 0	Sq. 1/2	35	150	170	26	110.5	125	300	554	21.8	3.7	8.1
ERAL4-225	615 165 389 0	Sq. 3/4	60	200	225	44	147	166	220	604	23.8	3.9	8.6
ERAL6-135	615 165 390 0	Sq. 1/2	30	125	135	22	92	100	640	639	25.2	6.2	13.7
ERAL6-170	615 165 441 0	Sq. 1/2	30	150	170	22	110	125	520	639	25.2	6.2	13.7
ERAL6-280	615 165 391 0	Sq. 3/4	50	250	280	37	184	206	300	661	26	6.3	13.9
ERAL6-350	615 165 392 0	Sq. 3/4	75	300	350	55	221	258	250	702	27.6	8.0	17.6
ERAL6-480	615 165 393 0	Sq. 3/4	100	400	480	73	295	354	190	702	27.6	8.0	17.6



In-line electric nutrunners

MODEL	PART NUMBER	OUTPUT DRIVE	COUPLE						ROTATIONAL SPEED	LENGTH		WEIGHT	
			MIN.	RECOM MENDED	MAX	MIN.	RECOM MENDED	MAX		mm	in.	kg	lb
		in.	Nm	Nm	Nm	ft.lb	ft.lb	ft.lb	rpm				
ERD5J	615 165 060 0	Hex. 1/4 F	0.5	6	8	0.37	4.4	5.9	2070	379	14.9	1.3	2.9
ERDL1.5-12	615 165 366 0	Hex. 1/4 F	2	10	12	1.5	7.4	8.8	1586	365	14.4	1.3	2.9
ERDL1.5-20	615 165 367 0	Hex. 1/4 F	3	15	20	2.2	11	14.7	1586	365	14.4	1.3	2.9
ERDL1.5-30	615 165 368 0	Sq. 3/8	5	20	30	3.7	14.7	22	1586	357	14	1.3	2.9
ERDL2-40	615 165 369 0	Sq. 3/8	7	30	40	5.2	22	29.5	1159	382	15	1.5	3.3
ERDL2-50	615 165 370 0	Sq. 3/8	8	40	50	5.9	29.5	36.9	898	382	15	1.5	3.3
ERDL4-60	615 165 407 0	Sq. 3/8	20	50	60	14.7	36.8	44.2	1030	475	18.7	2.8	6.2
ERDL4-80	615 165 394 0	Sq. 1/2	20	70	80	14.7	51.6	59	650	475	18.7	2.8	6.2
ERDL4-135	615 165 395 0	Sq. 1/2	30	120	135	22.1	88.4	99.6	400	502	19.8	3.3	7.3
ERDL6-170	615 165 396 0	Sq. 1/2	40	150	170	29.5	110.5	125.3	530	590	23.2	5.9	13
ERDL6-220	615 165 397 0	Sq. 3/4	50	200	220	36.8	147.4	162	380	597	23.5	5.9	13
ERDL6-250	615 165 398 0	Sq. 3/4	60	230	250	44.2	169	184	290	597	23.5	5.9	13



ACCESSORIES
see page 58



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MultiCVIL II - Main Features

MULTICHANNEL SYSTEM

Drive up to 32 fixtured spindles
One CVIL Master + x times CVIL Slave

Through CVIPC2000 (to Master only)

Cycles Phases management

- 31 different cycles
- Combines up to 20 phases in a fastening cycle

Data collection

- CVIPC2000
- CVINET WEB

Fieldbuses

- By additional modules
- By Ethernet ports
- Flexible mapping

Isagraf, embedded PLC software to manage:

- Assembly station
- HMI

FIXTURED SPINDLES

- From 1 to 1900Nm
- EME straight
- EMEOF with Offset for close center distance application
- EMEL "L" shape reduces the height of the tool
- High accuracy
- A10 class
- Digital communication between the tool and controller
- Memory chip with all characteristics of the tool: transducer sensitivity, gear ratio, maintenance info, etc...

ONE CABLE

- Motor power
- Digital connection of the transducer and memory device
- Up to 45 meters
- Design to be used in robot applications



Flexibility of tightening process

EASY PROGRAMMING OF THE TIGHTENING SEQUENCE WITH FULL SYNCHRONIZATION

Run Down phase

Spindle 1-2-3-4-5-6-7-8-9-10

Final Speed phase

Spindle 1-2

Final Speed phase

Spindle 3-4-5-6

Final Speed phase

Spindle 7-8-9-10

Automatic Repair Action

Reverse all spindles and retry once
Jump to phase 2

End of the cycle

Reporting



CVIPC



MAIN FUNCTIONS	MULTICVIL II
Number of channels	1 to 32
Number of cycles	31
Number of phases	20
Batch count	999
Bar code reading via RS232 port	
Tightening results	
Torque + Angle + Date + Time + Report	up to 32 000
Number of curves (per channel)	10
Tightening strategies	
Torque control + angle monitoring	✓
Angle control + torque monitoring	✓
T control + (Angle + torque rate) monitoring	✓
Angle control + (Torque + torque rate) monitoring	✓
Yield point strategy	✓
Stall torque	✓
Prevailing torque	✓
Current monitoring	✓
Reverse at Angle control	✓
Tightening connectivity	
Input/Output	8/8
RS232 port	OK
Ethernet RJ45	8 sockets
Fieldbuses	Optional module
Embed PLC software	OK
IP54	Optional module
	2 channels

Controllers - MultiCVIL II



MODEL	PART NUMBER	CONSUMPTION (CURRENT)		MAINS SUPPLY	DIMENSIONS						WEIGHT	
		115 V	230 V		WIDTH		HEIGHT		DEPTH		kg	lb.
CVIL II M (Master)	615 932 682 0	4A	2A	50/60 hertz	130	5.1	278	10.9	291	11.5	5.9	13
CVIL II S (Slave)	615 932 683 0	4A	2A	Single phase	130	5.1	278	10.9	291	11.5	5.9	13
Multicombox	615 929 044 0											

OPTIONAL ACCESSORIES

	PART NO.
• Kit IP54	615 932 684 0

Fieldbus module

MODEL	PART NO.
• Ethernet IP Module	615 927 594 0
• Profi bus DP Module	615 927 595 0
• ProfiNet Module (1 port)	615 927 596 0
• ProfiNet Module (2 ports)	615 927 597 0
• Devicenet Module	615 927 599 0
• MODBUS TCP Slave	615 927 615 0
• Shelf support - Aluminium profile	615 397 403 5



Kit version



One CVIL-Master



n.CVIL-Slaves



Software CVIPC 2000 + Power cord



Multicombox

Contact your Desoutter representative for assistance



Also available:
Specially designed a frame to secure controllers and ensure safe and tidy wiring

Turn Key Solution



One CVIL-Master



n.CVIL-Slaves

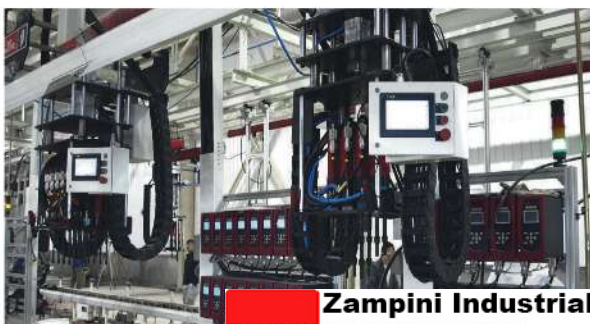


Software CVIPC 2000 + Network cables & Power cord



One power box supply with E Stop - Ethernet switches
Multicombox - Circuit breakers

Powerbox depending on power supply



Fixtured electric spindles

High durability of EME tools

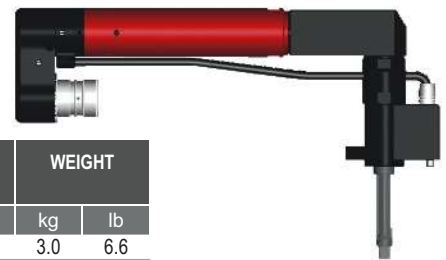
- Long life gear boxes
- Brushless motor
- High output torque transducer for a larger torque range

MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE		ROTATIONAL SPEED	MIN. CENTRE DISTANCE		LENGTH		WEIGHT	
			in.	Nm		ft.lb	rpm	mm	in.	mm	in.
EME35-10J	615 165 423 0	3/8	1-8	0.7-5.9	2067	43.2	1.7	283	11.1	1.7	3.7
EME35-20J	615 165 424 0	3/8	4-15	2.1-11	2067	43.2	1.7	308	12.1	2.0	4.4
EME38-10J	615 165 425 0	3/8	9-30	6.6-22	1287	43.2	1.7	355	14	2.0	4.4
EME38-20J	615 165 426 0	3/8	10-45	7.4-33	1092	43.2	1.7	355	14	2.0	4.4
EME51-10J	615 165 427 0	1/2	20-70	15-52	650	51.2	2.0	374	14.7	2.9	6.4
EME51-20J	615 165 428 0	1/2	30-135	22-99	403	51.2	2.0	401	15.8	3.5	7.7
EME60-10J	615 165 429 0	1/2	20-95	15-70	923	60.2	2.4	431	16.9	4.8	10.6
EME60-20J	615 165 430 0	3/4	50-175	37-129	507	60.2	2.4	431	16.9	4.8	10.6
EME60-30J	615 165 431 0	3/4	70-250	52-184	299	60.2	2.4	467	18.4	5.2	11.5
EME80-10J	615 165 432 0	3/4	80-300	59-221	286	80.2	3.2	494	19.5	9.8	21.6
EME80-20J	615 165 433 0	3/4	120-450	88-221	195	80.2	3.2	494	19.5	9.8	21.6
EME80-30J	615 165 434 0	1	180-650	133-479	130	80.2	3.2	494	19.5	9.8	21.6
EME80-40J	615 165 435 0	1	220-800	162-590	91	80.2	3.2	494	19.5	9.8	21.6
EME80-50J	615 165 436 0	1	220-1000	162-737	72	80.2	3.2	494	19.5	9.8	21.6
EME106-10J	615 165 437 0	1	430-1500	317-1105	52	106.2	4.2	564	22.2	15	33.1
EME106-20J	615 165 438 0	1	540-1900	398-1400	39	106.2	4.2	564	22.2	15	33.1



EMEL shape for close access

MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE		ROTATIONAL SPEED	MIN. CENTRE DISTANCE		LENGTH		WEIGHT	
			in.	Nm		ft.lb	rpm	mm	in.	mm	in.
EMEL38-20J	615 165 517 0	3/8	10-45	7.4-33.2	1092	43.2	1.7	140.5	5.5	3.0	6.6
EMEL51-20J	615 165 518 0	1/2	30-135	22-99.5	403	51.2	2.0	166	6.5	4.0	8.8
EMEL60-20J	615 165 519 0	3/4	50-175	37-129	481	60.2	2.4	178	7	6.0	13.2
EMEL60-30J	615 165 520 0	3/4	70-250	52-184	312	60.2	2.4	178	7	6.0	13.2
EMEL80-40J	615 165 521 0	1	220-800	162-590	91	80.2	3.2	241	9.5	11	24.2



EME Offset with torque transducer in line with the output shaft

Increase access by using smallest CC distances offered

MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE		ROTATIONAL SPEED	MIN. CENTRE DISTANCE		LONGUEUR		LENGTH	
			in.	Nm		ft.lb	rpm	mm	in.	mm	in.
EME24-20 OF	615 165 512 0	3/8	4-20	2.9-15	1225	24	0.95	375.2	14.8	2.7	5.9
EME26-50 OF	615 165 513 0	3/8	7-50	5.2-40	985	26	1.02	387.5	15.2	2.7	5.9
EME30-80 OF	615 165 514 0	1/2	10-80	7.4-59	580	30	1.18	414.3	16.3	3.9	8.6
EME36-140 OF	615 165 515 0	1/2	19-140	14-103	375	36	1.42	454.4	17.7	4.7	10.4
EME40-180 OF	615 165 516 0	3/4	25-180	18-133	475	40	1.57	481.7	18.9	6.4	14.1
EME44-300 OF	615 165 602 0	3/4	80-300	59-221	217	45	1.77	632.5	24.9	11	24.2



ACCESSORIES
see page 59



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Desoutter



Accessories

ERP / ERAL / ERDL

ACCESSORIES INCLUDED

ITEM		PART NO.		
		ERP	ERAL	ERDL
1	Side handle	467033		
2	Suspension bail	467003		
3	Horizontal bail ERAL - ERDL1.5 / 2		615 396 562 0	615 396 562 0
4	Reaction bar ring ERDL1.5 / 2			615 396 551 5
4	Reaction bar ERDL4			615 595 259 0
4	Reaction bar ERDL6			615 396 297 0
4	Reaction bar ERAL6- 350/480		615 396 302 0	

OPTIONAL ACCESSORIES

ITEM		PART NO.		
		ERP	ERAL	ERDL
5	Long lever start (included with ERD5J)			615 396 584 0
6	2nd lever start ERAL-ERDL1.5 / 2		615 396 553 0	615 396 553 0
7	High resistance side handle ERP	615 397 012 0		
7	Side reaction handle ERAL-ERDL1.5 / ERDL2		615 396 554 0	615 396 554 0
8	Suspension ring ERAL1.5-2		615 571 063 0	
8	Suspension ring ERAL4		615 571 070 0	
8	Suspension ring ERAL6		615 571 064 0	
9	Reaction bar ring for ERAL2-80		615 396 622 0	
9	Reaction bar ring ERAL4-90/170 / ERAL6-135/170		615 396 227 0	
9	Reaction bar ring ERAL4-225		615 396 230 0	
10	Rotary connector 90° ER		615 396 299 0	615 396 299 0
	• Extension 200mm ERA(D)L1.5-2		615 396 865 0	615 396 865 0
	• Extension 200mm ERA(D)L4		615 396 866 0	615 396 866 0
11	Mounting plate with telescopic spindle ERDL1.5 / ERDL2			615 396 547 0

Plastic cover

12	Plastic cover ERP.S			615 573 074 0
12	Plastic cover ERP.L	615 573 075 0		
12	Plastic cover ERP.LT	615 573 076 0		
13	Plastic cover AH1 for ERAL1.5-15 / 25 / ERAL2-30 / 40	615 573 064 0		
13	Plastic cover AH2 for ERAL2-60		615 573 065 0	
13	Plastic cover AH3 for ERAL2-80		615 573 066 0	
14	Plastic cover AH4 for ERAL4-90 / 110 / 120		615 573 069 0	
14	Plastic cover AH5 for ERAL4-140 / 170 / ERAL6-135		615 573 070 0	
14	Plastic cover AH6 for ERAL4-225		615 573 071 0	
15	Plastic cover for ERDL1.5 / 2			615 573 067 0

Desoutter Tool Holster

16	DTH TWIN (single) without rail	615 811 411 0	615 811 411 0	
17	DTH TWIN rail kit with 2 Twin holders	615 811 412 5	615 811 412 5	
18	DTH TWIN stand kit with base & 2 Twin holders	615 811 413 5	615 811 413 5	
19	DTH90	615 812 119 0		

CABLE FOR ERP / ERAL / ERDL TOOLS

	PART NO.
Nutranner cable 5m (16ft)	615 917 492 0
Nutranner cable 10m (32ft)	615 917 494 0
Nutranner cable 15m (49.2ft)	615 917 495 0

HEAVY DUTY CABLE FOR ERP / ERAL / ERDL TOOLS

	PART NO.
Cable 2.5m (8.2ft)	615 917 570 0
Cable 5m (16ft)	615 917 571 0
Cable 10m (32ft)	615 917 572 0

HEAVY DUTY EXTENTION CABLE FOR ERP / ERAL / ERDL TOOLS

	PART NO.
Ext. cable 5m (16ft)	615 917 083 0
Ext. cable 10m (32ft)	615 917 084 0
Ext. cable 15m (49.2ft)	615 917 085 0
Ext. cable 20m (65.6ft)	615 917 086 0
Ext. cable 25m (82ft)	615 917 087 0
Ext. cable 30m (98ft)	615 917 088 0

SOCKET TRAY

- Socket tray (sockets not included)

615 936 005 0

CABLE LENGTH:

	1m (3.3ft)	5m (16ft)	10m (32.8ft)	15m (49.2ft)
			615 917 244 0	615 917 245 0



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Accessories



ERS / ERSA / ERSF / ELRT

OPTIONAL ACCESSORIES

ITEM		ERS.	ELRT
1	Long lever Kit	615 321 254 0	
2	Suspension yoke kit	615 791 080 0	
3	Reaction handle	615 397 016 0	
4	Plastic cover for ELRT		615 211 012 0
5	Pistol grip kit for ERS	615 390 059 0	
6	D53-25 Linear arm (tool clamp included) - (see page 148)	615 810 702 0	
6	D53-25X Linear arm, extended reach (tool clamp included) - (see page 148)	615 810 703 0	
7	D53-25S Folder arm (tool clamp included) - (see page 148)	615 810 708 0	
8	Bit Tray	615 929 025 0	615 929 025 0
9	Spring suspension balancer	50522	50542
10	Tool Holster DTH90		615 812 119 0
11	ERS Module	615 936 537 0	

EXTENSION CABLE FOR ERS TOOLS	PART NO.
Ext. cable 5m (16ft)	615 917 222 0
Ext. cable 10m (32ft)	615 917 224 0

HEAVY DUTY THIN CABLE FOR ELRT TOOLS	PART NO.
Cable 5m (16ft)	615 917 574 0

HEAVY DUTY EXTENSION CABLE FOR ELRT TOOLS	PART NO.
Ext. cable 5m (16ft)	615 917 083 0
Ext. cable 10m (32ft)	615 917 084 0
Ext. cable 15m (49.2ft)	615 917 085 0
Ext. cable 20m (65.6ft)	615 917 086 0
Ext. cable 25m (82ft)	615 917 087 0
Ext. cable 30m (98ft)	615 917 088 0



EME / EMEL

OPTIONAL ACCESSORIES

TRANSDUCER-HOLDER FOR EME TOOL	PART NO.
• 3/8" square drive EME35/EME38	615 396 426 0
• 1/2" square drive EME51/EME60.10	615 396 427 0
• 3/4" square drive EME60.20/EME60.30	615 396 428 0
• 3/4" square drive EME80.10/EME80.20	615 396 429 0
• 1" square drive EME80.30/40/50 / EME106	615 396 430 0

EME ADAPTATION ON EXISTING APPLICATION (SEPARATED CABLE TORQUE + MOTOR CABLE)	PART NO.
• EME adaptation on old cable	615 917 539 0

CABLE FOR EME TOOLS - MULTICVIL & CVIL II	PART NO.
Cable 5m (16ft)	615 917 541 0
Cable 10m (32ft)	615 917 542 0
Cable 15m (49.2ft)	615 917 543 0

EXTENSION CABLE FOR EME TOOLS - MULTICVIL & CVIL II	PART NO.
Ext. cable 5m (16ft)	615 917 083 0
Ext. cable 10m (32ft)	615 917 084 0
Ext. cable 15m (49.2ft)	615 917 085 0
Ext. cable 20m (65.6ft)	615 917 086 0
Ext. cable 25m (82ft)	615 917 087 0
Ext. cable 30m (98ft)	615 917 088 0



Protocol, Software

MODEL	PART NUMBER
Reporting to toolsnet open protocol 5 licences	615 927 577 0
Reporting to toolsnet open protocol 10 licences	615 927 578 0
Reporting to toolsnet open protocol 25 licences	615 927 579 0
Reporting to toolsnet open protocol 50 licences	615 927 580 0

MODEL	PART NUMBER
Open protocol 5 licences	615 927 581 0
Open protocol 10 licences	615 927 582 0
Open protocol 25 licences	615 927 583 0
Open protocol 50 licences	615 927 584 0

MODEL	PART NUMBER
CVI PC2000 standard 1 install	615 927 522 0
CVI PC2000 standard 5 install	615 927 526 0
CVI PC2000 standard 25 install	615 927 537 0

MODEL	PART NUMBER
CVI PC2000 advanced 1 install	615 927 523 0
CVI PC2000 advanced 5 install	615 927 535 0
CVI PC2000 advanced 25 install	615 927 538 0



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CVIC Range Current controlled



Easy to integrate

Small size and smooth design for a simple installation.

Speed up the set up time by using the self learning process. Provides automatic set up for the tool to optimize your fastening process.

Multi torque capability

Replace multiple pneumatic tools with one electric tool per station.



Fastening quality guaranteed in all your products

Set up a batch count to ensure all bolts are tightened with correct strategy.



Batch NOK

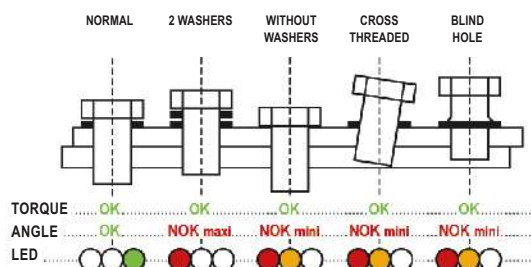


Batch OK

Quality of tightening

Control torque and angle with multi phases strategies.

Control torque & angle



* Error proofing (torque + angle)

Advanced ergonomics

Maximize your operators' comfort with ergo stop and direct reporting led in the controller and on the tool.



Open to peripherals

Increase your assembly quality and process through barcode reader, socket tray or bit tray. Control tightening order with our positioning system.

Technical features

CVIC Range

MAIN FUNCTIONS	NORMAL		ECP HIGH TORQUE	
	L STANDARD	H ADVANCED	L STANDARD	H ADVANCED
Quick cycle with self-learning of the joint	✓	✓		
Number of cycles in the controller	1	15	1	15
Number of phases	15	15	15	15
Batch count (999 OK reports)	✓	✓	✓	✓

TIGHTENING RESULTS		
Torque + Angle + Date + Time + Report	5000 to 20000 according configuration	

TYPES OF PHASES IN A CYCLE				
Search Sequence	✓	✓		
Run Down speed	✓	✓	✓	✓
Final speed	✓	✓	✓	✓
Run reverse	✓	✓		
Action on NOK	✓	✓		
Prevailing torque monitoring	✓	✓		

FINAL SPEED STRATEGIES				
Torque control + Angle monitoring	✓	✓	✓	✓
Angle control + Torque monitoring	✓	✓	✓	✓

DISPLAY AND PROGRAMMING				
Display				
LCD display	✓	✓	✓	✓
Keyboard				
8 button keypad	✓	✓	✓	✓
Reports				
LEDs	6	6	6	6
PC Software Windows				
CVIPC2000 *: program cycles, collect, display and save results, run statistics, curves				
Connection 'point to point' (RS232)	✓	✓	✓	✓
Connection through ethernet	✓	✓	✓	✓

*All CVIPC2000 versions are compatible with CVICs

MAINTENANCE				
Access to all tool parameters (tool memory)	✓	✓	✓	✓
Autotest of the complete system	✓	✓	✓	✓
Spindle rotation test	✓	✓	✓	✓
Input/Output selection	✓	✓	✓	✓
Date of the last maintenance operation	✓	✓	✓	✓
Total and partial cycle counters	✓	✓	✓	✓

PERIPHERALS				
Input/Output	8/8	8/8	8/8	8/8
Serial port RS232 (PC transfer, Bar code, Report output)	✓	✓	✓	✓
Ethernet connection (CVIPC2000 / CVInet)	✓	✓	✓	✓

MODEL				
CONTROLLER for low torque tools	CVIC II L-2	CVIC II H-2		
CONTROLLER for the other tools	CVIC II L-4	CVIC II H-4	CVIC II L-4	CVIC II H-4

MAINS SUPPLY				
Single-phase, automatic switching 110V/230V	✓	✓	✓	✓

Controllers - CVIC

Electric current control



CVIC II-L2
CVIC II-H2



CVIC II-L4
CVIC II-H4

ECS (M20) 0.12 - 16 Nm	
ECSA 0.55 - 11.5 Nm	
ECSF 0.12 - 16 Nm	
ECPL/LT 1 - 20 Nm	
ECFL 1 - 20 Nm	
ECA15 5 - 15 Nm	
ECD5 2 - 6 Nm	
MC35-10 2.5 - 8 Nm	
ECA 7 - 200 Nm	
ECD 7 - 120 Nm	
ECP 7 - 40 Nm	
ECFS 7 - 30 Nm	
ECP HT 30 - 4000 Nm	
MC 5 - 135 Nm	

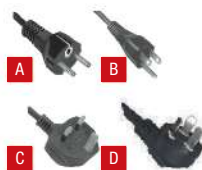
MODEL	PART NUMBER	TOOLS	CONSUMPTION (current)		MAINS SUPPLY	DIMENSIONS			WEIGHT	
			115V	230V		50/60 hertz	WIDTH	HEIGHT	DEPTH	kg
			mm	in.	mm	in.	mm	in.	mm	in.

CVIC II CONTROLLERS

MODEL	PART NUMBER	TOOLS	CONSUMPTION (current)	MAINS SUPPLY	WIDTH	HEIGHT	DEPTH	WEIGHT
CVIC II-L2	615 932 676 0	ECS / ECPL(T) / ECD5 / MC35-10 / ECA15	4A 2A	Single-phase	130	5.1	278	5 11
CVIC II-H2	615 932 677 0	ECS / ECPL(T) / ECD5 / MC35-10 / ECA15	4A 2A	100 to 250 V	130	5.1	278	5 11
CVIC II-L4	615 932 678 0	Other tools	8A 4A	Single-phase	130	5.1	278	5 11
CVIC II-H4	615 932 679 0	Other tools	8A 4A	100 to 250 V	130	5.1	278	5 11

START-UP KIT to be ordered with the controller
Including: **Power cable and plug**

PLUG	DESCRIPTION	PART NO.
A	European	615 917 201 0
B	US	615 917 203 0
C	UK	615 917 202 0
D	Chinese	615 917 206 0



OPTIONAL ACCESSORIES

	PART NO.
• PC cable Length 2m (78.7")	615 917 047 0
• Printer cable Length 2m (78.7")	615 917 011 0

Software

MODEL	PART NO.
CVIPC2000 for CVIS/CVIC 1 Install	615 927 521 0
CVIPC2000 for CVIS/CVIC 2 Install	615 927 534 0
CVINET WEB 1 controller	

Fieldbus / Protocol

MODEL	PART NO.
ProfiNet Module (2 ports)	615 927 597 0
	615 927 598 0



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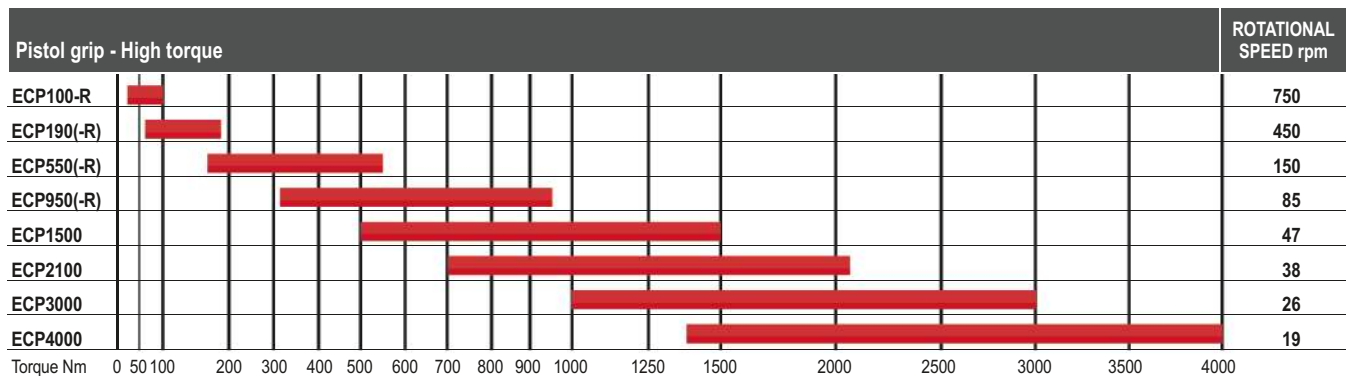
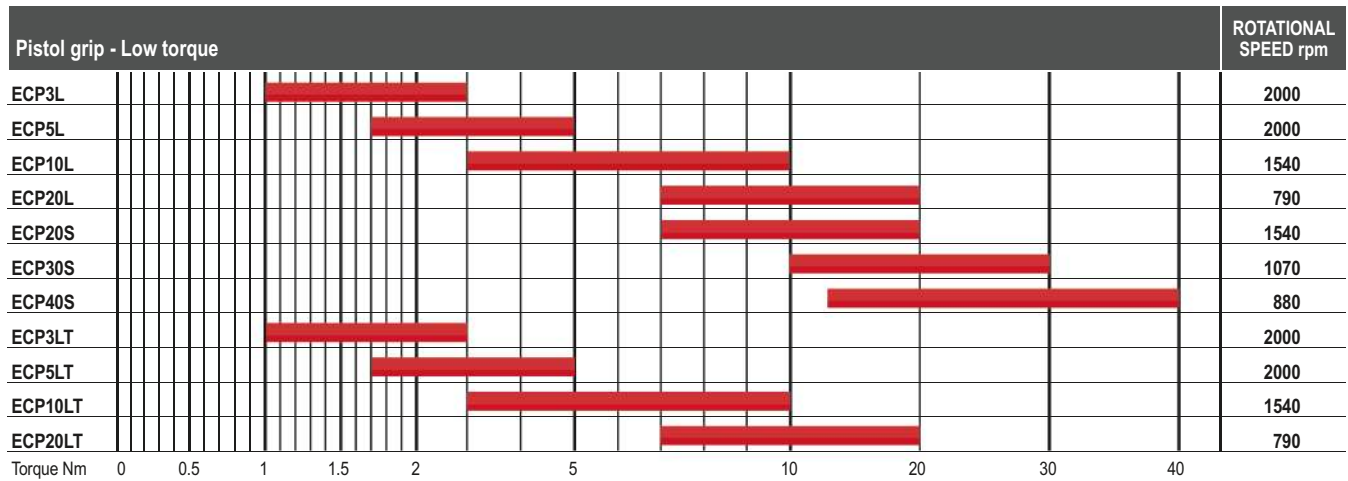
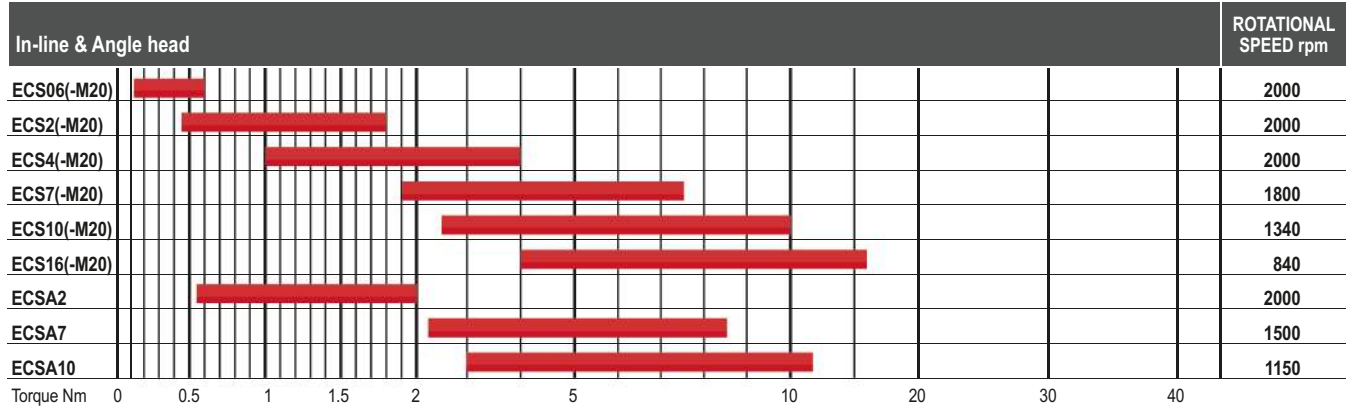
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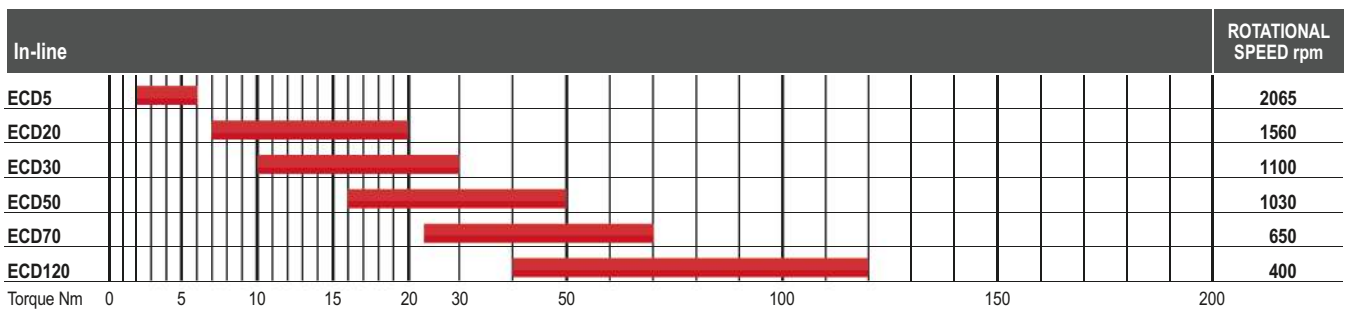
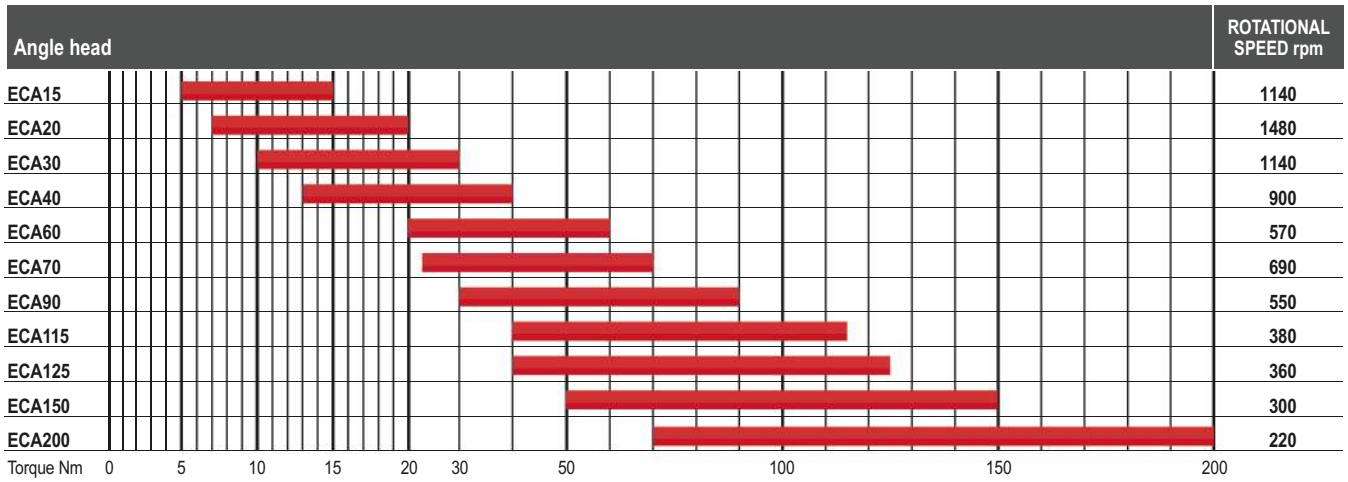
Torque Range

Performances of Portable electric nutrunners ECS, ECSA and ECP Series

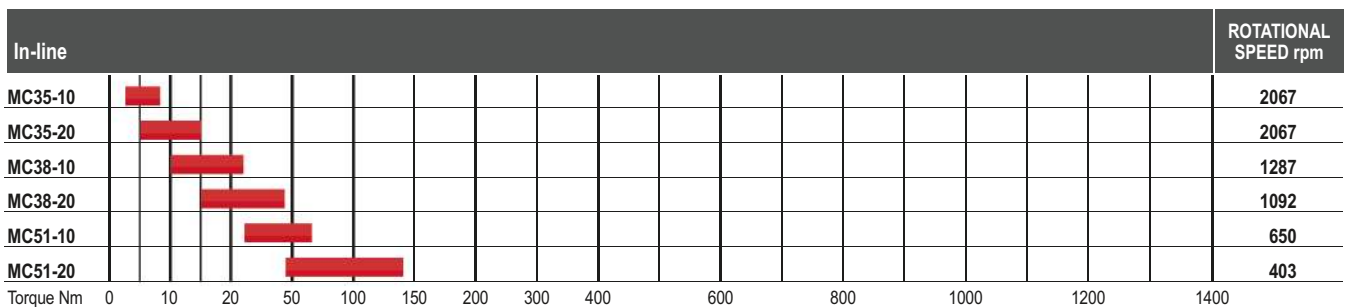
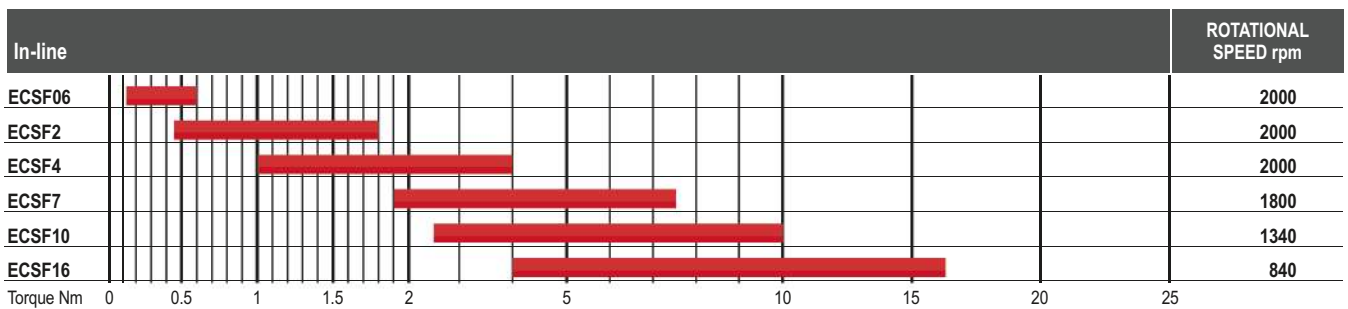


Torque Range

Performances of Portable electric nutrunners ECA and ECD Series



Performances of Fixtured electric spindles ECSF and MC Series



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Electric Screwdrivers - CVIC

0.12 to 16 Nm (1.1 to 141.6 in.lb) - 840 to 2000 rpm

The ECS series offers outstanding torque accuracy and operator ergonomics, making it the ideal choice for assembly operations that require a high level of quality



Improve your joint visibility



Adapt your tool with accessories



A



B



C

6.2
(0.24")
33.8
(1.33")
ø22
(0.87")



OK



NOK



BATCH OK

Get the best tightening feedback directly on the tool



ACCESSORIES
see pages 76-77

PIC REF	MODEL	PART NUMBER	OUTPUT HEX	TORQUE RANGE				ROTATIONAL SPEED	LENGTH		WEIGHT	
				MIN.	MAX.	MIN.	MAX.		mm	in.	kg	lb.
				Nm	Nm	in.lb	in.lb	rpm				

ELECTRIC SCREWDRIVERS - IN-LINE

A	ECS06	615 165 442 0	Hex. 1/4 F	0.12	0.6	1.1	5.3	2000	285	11.2	0.6	1.3
A	ECS2	615 165 443 0	Hex. 1/4 F	0.45	1.8	4	15.9	2000	285	11.2	0.6	1.3
A	ECS4	615 165 445 0	Hex. 1/4 F	1	4	8.8	35.4	2000	285	11.2	0.6	1.3
A	ECS7	615 165 446 0	Hex. 1/4 F	1.9	7.5	16.8	66.4	1800	285	11.2	0.7	1.5
A	ECS10	615 165 444 0	Hex. 1/4 F	2.5	10	22.1	88.5	1340	285	11.2	0.7	1.5
A	ECS16	615 165 459 0	Hex. 1/4 F	4	16	35.4	141.6	840	285	11.2	0.7	1.5

ELECTRIC SCREWDRIVERS - IN-LINE

B	ECS06-M20	615 165 454 0	Hex. 1/4 F	0.12	0.6	1.1	5.3	2000	285	11.2	0.6	1.3
B	ECS2-M20	615 165 455 0	Hex. 1/4 F	0.45	1.8	4	15.9	2000	285	11.2	0.6	1.3
B	ECS4-M20	615 165 456 0	Hex. 1/4 F	1	4	8.8	35.4	2000	285	11.2	0.6	1.3
B	ECS7-M20	615 165 457 0	Hex. 1/4 F	1.9	7.5	16.8	66.4	1800	285	11.2	0.7	1.5
B	ECS10-M20	615 165 458 0	Hex. 1/4 F	2.5	10	22.1	88.5	1340	285	11.2	0.7	1.5
B	ECS16-M20	615 165 460 0	Hex. 1/4 F	4	16	35.4	141.6	840	285	11.2	0.7	1.5

ELECTRIC SCREWDRIVERS - ANGLE HEAD

C	ECSA2	615 165 447 0	Hex. 1/4 F	0.55	2.2	4.9	19.5	2000	329	12.9	0.6	1.3
C	ECSA7	615 165 448 0	Hex. 1/4 F	2.2	8.5	19.5	75.2	1500	329	12.9	0.7	1.5
C	ECSA10	615 165 449 0	Hex. 1/4 F	4	16	35.4	141.6	840	329	12.9	0.7	1.5



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Pistol grip electric nutrunners - CVIC

1 to 40 Nm (0.7 to 29.1 ft.lb) - 790 to 2000 rpm



A



B



C



D

 **ACCESSORIES**
see pages 76-77

PIC REF	MODEL	PART NUMBER	OUTPUT DRIVE	TORQUE RANGE		ROTATIONAL SPEED AT		LENGTH		WEIGHT	
				in.	Nm	ft.lb	rpm/230 V	rpm/110 V	mm	in.	kg
A	ECP3L	615 165 199 0	Hex. 1/4F	1.0-3.0	0.7-2.2	2000	2000	196	7.7	1.0	2.2
A	ECP5L	615 165 200 0	Hex. 1/4F	1.7-5.0	1.3-3.7	2000	2000	196	7.7	1.0	2.2
A	ECP10L	615 165 201 0	Hex. 1/4F	3.0-10	2.2-7.4	1540	1540	196	7.7	1.1	2.4
A	ECP20L	615 165 202 0	Hex. 1/4F	7.0-20	5.2-15	790	790	196	7.7	1.1	2.4
B	ECP20S	615 165 203 0	Hex. 1/4F	7.0-20	5.2-15	1540	1540	221	8.7	1.2	2.6
B	ECP30S	615 165 204 0	Sq. 3/8	10-30	7.4-22	1070	1070	217	8.5	1.2	2.6
C	ECP40S	615 165 262 0	Sq. 3/8	13-40	9.6-29	880	880	263	10.4	2.1	4.5
D	ECP3LT	615 165 231 0	Hex. 1/4F	1.0-3	0.7-2.2	2000	2000	196	7.7	1.0	2.2
D	ECP5LT	615 165 232 0	Hex. 1/4F	1.7-5	1.3-3.7	2000	2000	196	7.7	1.0	2.2
D	ECP10LT	615 165 233 0	Hex. 1/4F	3.0-10	2.2-7.4	1540	1540	196	7.7	1.1	2.4
D	ECP20LT	615 165 234 0	Hex. 1/4F	7.0-20	5.2-15	790	790	196	7.7	1.1	2.4



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Electric High Torque Pistol Grip - CVIC

30 to 4000 Nm (22 to 2950 ft.lb) - 19 to 750 rpm



Over 360° Swivel
for operator safety
and comfort



For your quality-critical applications

Impact and impulse tools have been a production favourite for many years.

This current controlled swing bar tool allows you a 1st step to switch from pneumatic to DC tools, error-proof your high torque tightenings in medium duty applications, save on energy costs and reduce your carbon footprint.

Offering all benefits of Electric Brushless Tools

- Maintenance free motor
- Less than 70 dB(A)
- Environment friendly (no air, no oil)
- Repeatability and no need to re-torque
- One Tool = up to 15 different torque settings

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE				ROTATIONAL SPEED	LENGTH		WEIGHT	
				MIN.	MAX.	MIN.	MAX.		mm	in.	kg	lb.

NON REVERSIBLE

A	ECP190	615 165 399 0	1/2	60	190	44	140	450	314	12.4	3.0	6.6
A	ECP550	615 165 400 0	3/4	175	550	129	405	150	351	13.8	3.7	8.1
A	ECP950	615 165 401 0	1	310	950	228	700	85	379	14.9	4.0	8.8
B	ECP1500	615 165 524 0	1	500	1500	368	1105	47	413	16.3	6.9	15.2
C	ECP2100	615 165 525 0	1-1/2	700	2100	516	1548	38	485	19.1	14.2	31.3
C	ECP3000	615 165 526 0	1-1/2	1000	3000	737	2212	26	485	19.1	14.2	31.3
C	ECP4000	615 165 527 0	1-1/2	1330	4000	980	2950	19	485	19.1	14.2	31.3

REVERSIBLE

D	ECP100-R	615 165 523 0	1/2	30	100	22	73	750	328	12.9	3.4	7.5
D	ECP190-R	615 165 451 0	1/2	60	190	44	140	450	328	12.9	3.4	7.5
D	ECP550-R	615 165 452 0	3/4	175	550	129	405	150	365	14.4	4.3	9.5
D	ECP950-R	615 165 453 0	1	310	950	228	700	85	395	15.6	4.6	10.2



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Electric High Torque Pistol Grip - CVIC



OPTIONAL ACCESSORIES	1	2	3	4	5	6
	STRAIGHT REACTION BAR	BLANK REACTION BAR	S TYPE REACTION BAR	SLIDING DRIVE REACTION BAR	SUSPENSION BAIL	PROTECTION SLEEVE
ECP100-R / ECP190 / ECP190-R	615 596 009 5	615 596 010 0	615 596 011 0	N/A	615 571 072 0	615 573 131 5
ECP550 / ECP550-R	615 596 012 5	615 596 013 0	615 596 015 0	615 596 014 0	615 571 072 0	615 573 131 5
ECP950 / ECP950-R	615 596 016 5	615 596 017 0	615 596 019 0	615 596 018 0	615 571 072 0	615 573 131 5
ECP1500	615 596 109 5	615 596 110 0	615 596 112 0	615 596 111 0	615 571 072 0	615 573 131 5
ECP2100 / ECP3000 / ECP4000	N/A	INCLUDED	N/A	N/A	N/A	615 573 131 5



Angle head electric nutrunners - CVIC

5 to 200 Nm (3.7 to 147 ft.lb) - 200 to 1480 rpm



A



B

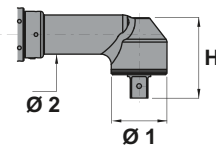


C



D

MODEL	H		Ø1		Ø2	
	mm	in.	mm	in.	mm	in.
ECA15	45.5	1.8	28	1.10	27	1.06
ECA20 - ECA30	45.5	1.8	28	1.10	27	1.06
ECA40	51.5	2.0	35	1.40	27	1.06
ECA60	57.5	2.3	40	1.60	30.5	1.20
ECA70- ECA90 - ECA115	66.0	2.6	45	1.77	37	1.46
ECA125 - ECA150	69.0	2.7	50	1.97	42	1.65
ECA200	86.0	3.4	60	2.36	42	1.65



 **ACCESSORIES**
see pages 76-77

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE		ROTATIONAL SPEED AT		LENGTH		WEIGHT	
				in.	Nm	ft.lb	rpm/230 V	rpm/110 V	mm	in.	kg
A	ECA15	615 165 192 0	3/8	5-15	3.7-11	1140	1140	406	16.0	1.3	2.9
A	ECA20	615 165 100 0	3/8	7-20	5.2-15	1480	1480	431	16.9	1.7	3.7
A	ECA30	615 165 101 0	3/8	10-30	7.4-22	1140	1140	431	16.9	1.7	3.7
B	ECA40	615 165 102 0	3/8	13-40	9.6-29	900	900	441	17.4	1.8	4.0
B	ECA60	615 165 103 0	3/8	20-60	14.7-44	570	570	453	17.8	1.9	4.2
C	ECA70	615 165 104 0	1/2	23-70	16.9-52	690	690	538	21.2	3.3	7.3
C	ECA90	615 165 105 0	1/2	30-90	22.1-66	550	550	538	21.2	3.3	7.3
C	ECA115	615 165 106 0	1/2	39-115	28.7-85	380	380	538	21.2	3.3	7.3
C	ECA125	615 165 188 0	1/2	40-125	29.5-92	360	360	541	21.3	3.6	7.9
C	ECA150	615 165 189 0	1/2	50-150	36.8-111	300	300	541	21.3	3.6	7.9
D	ECA200	615 165 190 0	3/4	70-200	51.6-147	200	200	591	23.3	3.8	8.4



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In-line electric Nutrunners - CVIC

2 to 120 Nm (1.5 to 88 ft.lb) - 400 to 2065 rpm



A



B



C

 **ACCESSORIES**
see pages 76-77

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE		ROTATIONAL SPEED AT		LENGTH		WEIGHT	
				in.	Nm	ft.lb	rpm/230 V	rpm/110 V	mm	in.	kg
A	ECD5	615 165 068 0	Hex 1/4	2-6	1.5-4.4	2065	2065	346	13.6	1.0	2.4
B	ECD20	615 165 093 0	Hex 1/4	7-20	5.2-15	1560	1560	388	15.3	1.5	3.3
B	ECD30	615 165 094 0	Sq 3/8	10-30	7.4-22	1100	1100	380	15.0	1.5	3.3
C	ECD50	615 165 095 0	Sq 3/8	16-50	11.8-37	1030	1030	456	17.9	2.6	5.7
C	ECD70	615 165 096 0	Sq 1/2	23-70	16.9-52	650	650	461	18.1	2.6	5.7
C	ECD120	615 165 097 0	Sq 1/2	40-120	29.5-88	400	400	488	19.2	3.1	6.8



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Fixtured electric spindles - CVIC

0.12 to 16 Nm (1.1 to 141.6 in.lb) - 840 to 2000 rpm



A



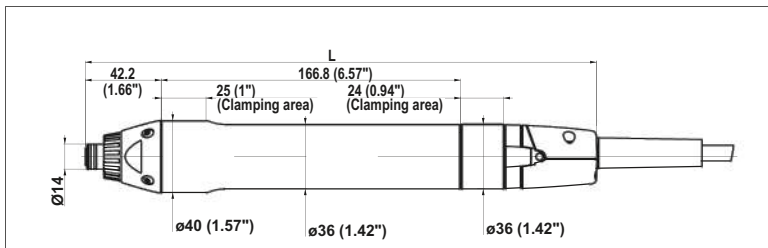
Offset head for application with close centers (minimum 19mm)



Automatically adjust the stroke for multispindle applications with spring loaded shafts



Mount your spindle easily on a support using the adapted flange



ACCESSORIES
see page 76

PIC REF	MODEL	PART NUMBER	OUTPUT HEX	TORQUE RANGE		ROTATIONAL SPEED AT	LENGTH		WEIGHT	
				in.	Nm		in.lb	rpm	mm	in.
A	ECSF06	615 165 501 0	Hex. 1/4 F	0.12-0.6	1.1-5.3	2000	285	11.2	0.6	1.3
A	ECSF2	615 165 502 0	Hex. 1/4 F	0.45-1.8	4.0-15.9	2000	285	11.2	0.6	1.3
A	ECSF4	615 165 503 0	Hex. 1/4 F	1.0-4.0	8.8-35.4	2000	285	11.2	0.6	1.3
A	ECSF7	615 165 504 0	Hex. 1/4 F	1.9-7.5	16.8-66.4	1800	285	11.2	0.7	1.5
A	ECSF10	615 165 505 0	Hex. 1/4 F	2.5-10	22.1-88.5	1340	285	11.2	0.7	1.5
A	ECSF16	615 165 506 0	Hex. 1/4 F	10-16	88.5-354	1340	285	11.2	0.7	1.5

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Fixtured electric spindles - CVIC

2.5 to 135 Nm (1.8 to 99 ft.lb) - 403 to 2067 rpm



A



B

 **ACCESSORIES**
see page 77

For MC.tools with Offset heads, please contact your local Desoutter sales engineer for more information

PIC REF	MODEL	PART NUMBER	SQUARE DRIVE	TORQUE RANGE		ROTATIONAL SPEED AT		TELESCOPIC		MIN CENTRE DISTANCE		LENGTH		WEIGHT	
				in.	Nm	ft.lb	rpm/230 V	rpm/110 V	mm	in.	mm	in.	mm	in.	kg
A	MC35-10	615 165 107 0	3/8	2.5-8	1.8-5.9	2067	2067	50	1.97	43.2	1.7	276	10.9	1.7	3.7
A	MC35-20	615 165 108 0	3/8	5-15	3.7-11	2067	2067	50	1.97	43.2	1.7	301	11.8	2.0	4.4
A	MC38-10	615 165 109 0	3/8	10-30	7.4-22	1287	1287	50	1.97	43.2	1.7	347	13.7	2.0	4.4
A	MC38-20	615 165 110 0	3/8	15-45	11-33	1092	1092	50	1.97	43.2	1.7	347	13.7	2.0	4.4
B	MC51-10	615 165 111 0	1/2	25-70	18-52	650	650	50	1.97	51.2	2.0	366	14.4	2.9	6.4
B	MC51-20	615 165 112 0	1/2	25-70	18-52	650	650	50	1.97	51.2	2.0	393	15.4	3.5	7.7



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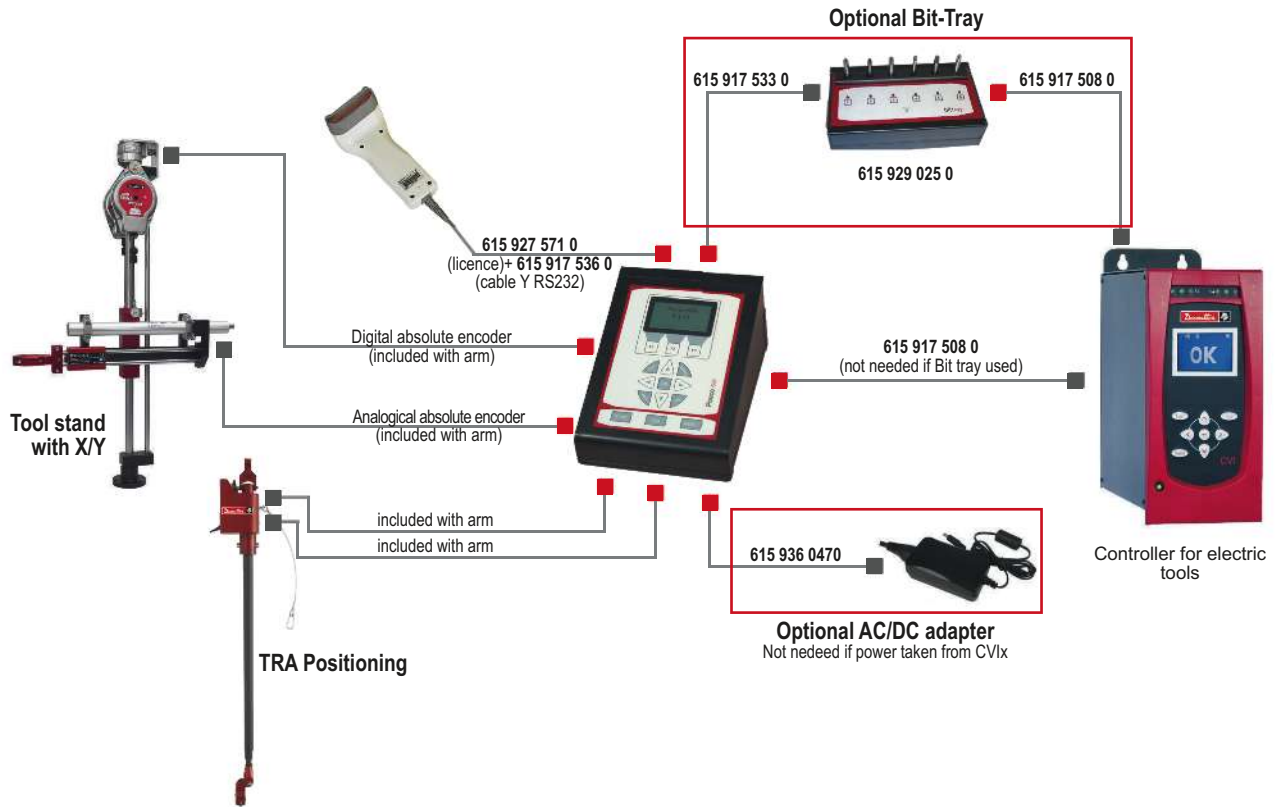
Posco 500 Positioning system

Flexibility and control

Used in conjunction with encoders equipped arms stand or carbon arm, the system ensures that the tool is positioned at the right screw during the operation. An output signal will confirm to your PLC that the job is done.

Easy programming

The Posco 500 system lets you program a sequence of operations by "self learning mode" and ensures that the steps are completed in the right order and in the right conditions.



POSCO 500 BOX	PART NO.
Posco 500 controller desk	615 932 656 0
Posco 500 controller desk with I/O extension	615 932 658 0
Posco500 controller wall with I/O extension	615 932 659 0
AC/DC adapter 90-260V/24V 30W	615 936 047 0
I/O add-on board	615 929 026 0
OTHERS	PART NO.
Bit tray module	615 929 025 0
Mounted set	615 930 777 0

CABLE	PART NO.
Cable Posco 500 / I-O CVI	615 917 534 0
Cable Posco 500 / Bit-Tray	615 917 533 0
Cable Y RS232	615 917 536 0
Cable Bit-Tray / CVIxlI	615 917 508 0
I/O Adapter for CVIx II controllers	615 919 003 0
SOFTWARES & LICENCES	PART NO.
Barcode license	615 927 571 0
Advanced Programming Licence	615 927 572 0
PC Connection licence 1 User	615 927 573 0
PC Connection licence 5 Users	615 927 574 0
PC Connection licence 10 Users	615 927 575 0
FAS support licence	615 936 048 0

How to order?



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POSCO VISION - Positioning system

The POSCO Vision implements position monitoring and safety operation through operator guidance by a TFT color display. The entire assembly process can be programmed, controlled and monitored

Visualization
Display of the process and the parts

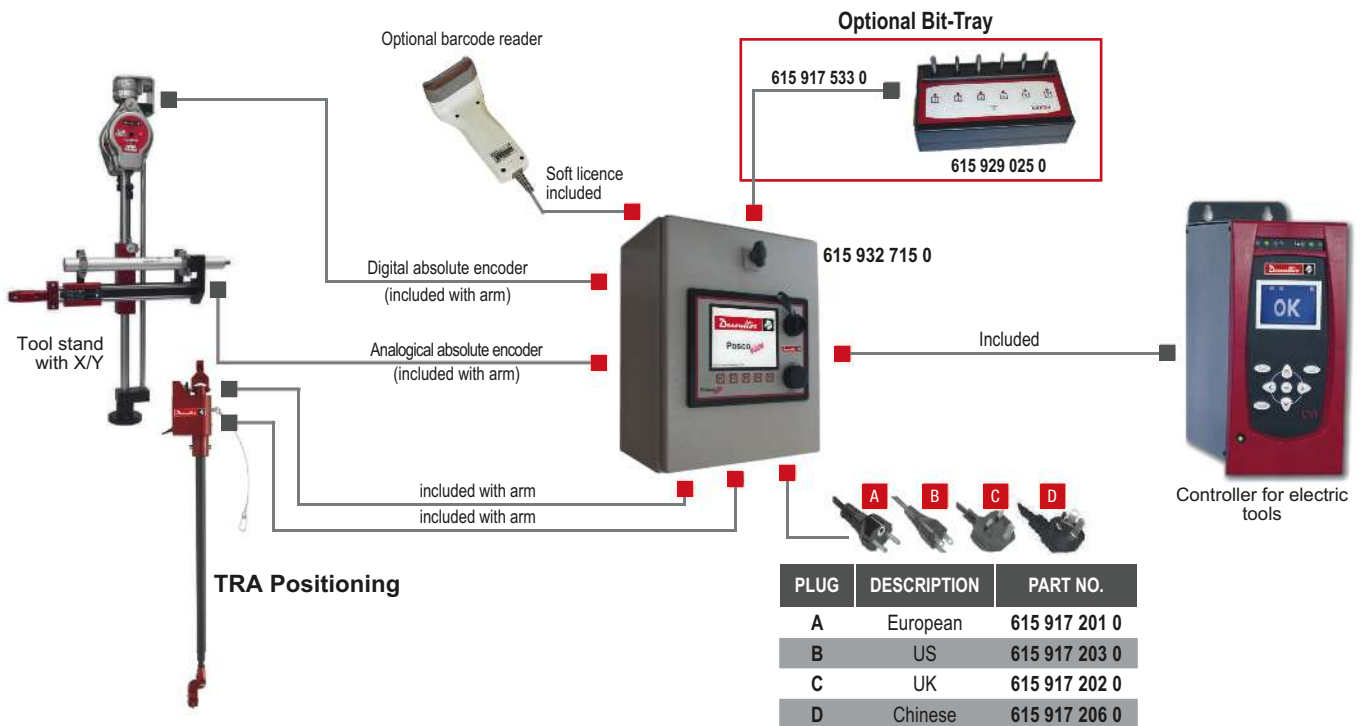


POSCO VISION Control Panel

High Flexibility
Every project is independent

Selection of operation

- Intelligent rotary knob
- Integrated button
- External Keyboard



PLUG	DESCRIPTION	PART NO.
A	European	615 917 201 0
B	US	615 917 203 0
C	UK	615 917 202 0
D	Chinese	615 917 206 0

Components / Functionalities included in the standard Posco Vision box: PN. 615 932 715 0

- Posco Vision panel (not mounted in the box)
- All cables and modules needed to install the system
- Cable between the Posco Vision box and the CV3 or CVIx2
- Up to 2 positioning arms can be connected as standard
- 16 Inputs / 16 Outputs
- Barcode reader function
- 3 RS232 ports

Advanced options

- Posco Vision Advanced licence: PN. 615 927 753 0
Includes 3rd positioning arm option, an additional RS232 port (4 ports in total) and the random fastening sequence functionality



Special customised Software

- Posco Vision Software for communication/traceability
PN. 615 927 626 0

How to order?

Controller & Tool CVI3 or CVIx2 + Positioning Arm + POSCO Vision BOX + Start up kit + Accessories RS232/Sub D25

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Accessories



ECS / ECP / ECA / ECD

ACCESSORIES INCLUDED

ITEM	PART NO.
1 Side handle for ECP.L/S/LT versions	467033
2 Fixed suspension bail for ECP.LT	467003
2 Fixed suspension bail for ECS	205 049 537 3
3 Stationary suspension bail for ECA15/20/30/40/60 / ECD	615 571 056 0
3 Stationary suspension bail for ECA90/115/125/150/200	615 571 050 0
• Socket ball retainer 3/8" for ECA15/20/30/40/60	615 770 028 0
4 Reaction bar for ECD20/30	615 396 191 0
4 Reaction bar for ECD50/70/120	615 595 259 0

OPTIONAL ACCESSORIES

ITEM	PART NO.
ECP	
5 High resistance Side handle for ECP L/S/LT versions	615 397 012 0
6 Rotary right angle tool connector	615 396 300 0
• Suspension bail on a swivel for ECP L/S	615 396 121 0
7 Suspension bail on a swivel for ECP HT	615 571 072 0
• Top cable length 4m for ECP.LT	615 917 420 0
8 Protection sleeve for ECP HT	615 573 131 5
9 Tool holster DTH90	615 812 119 0

ECA / ECD

6 Rotary right angle tool connector	615 396 300 0
10 Suspension bail on a swivel for ECA20/30/40/60 / ECD5/20/30	615 396 228 0
10 Suspension bail on a swivel for ECA70/90/115/125/150/200 / ECD5	615 396 229 0
• Reaction bar ring for ECD20/30	615 396 191 0
11 Reaction bar ring for ECA60	615 396 226 0
11 Reaction bar ring for ECA70/90/115/125/150	615 396 227 0
• Reaction bar ring for ECA200	615 396 230 0
12 Long lever start for ECA / ECD	615 396 584 0
• Tool clamp for ECD5	615 396 616 0

ECS / ECSA

13 Reaction handle for ECS	615 397 016 0
3 Stationary suspension bail for ECSA	615 791 080 0
• Tool clamp for ECS	615 396 616 0
14 Pistol grip kit for ECS	615 390 059 0

Spring Loaded Shafts and Bearings Support for ECS-M20/ECSF

15 Bit Adaptor	103782
16 Spring Loaded Shaft 25mm (1") stroke, 3/8" Sq Drive	108342
17 Shaft Support and Nose Mount	108412

Nose Mounts for ECS-M20/ECSF

18 Nose Mount	205 052 876 3
19 Flange	205 052 875 3

Offset Head and Spring Loaded Shaft for ECS-M20/ECSF

16 Spring loaded shaft 25mm (1") stroke, 3/8" square drive	108352
20 Offset Head, Offset 30mm (1.18")	384993

Screwdriver Bit Adaptor for ECS/ECSA/ECS-M20/ECSF

21 3/8" Square to 1/4" HexPower Adaptor	108322
---	--------



Accessories



ECS / ECP / ECA / ECD

SOCKETS TRAY & BITS TRAY	PART NO.
• Socket tray (sockets not supplied)	615 936 005 0
• Bit tray (bits not included)	615 929 025 0

CABLE FOR SOCKET TRAY	PART NO.
Cable 1m (3.3ft)	615 917 241 0
Cable 5m (16ft)	615 917 242 0
Cable 10m (32.8ft)	615 917 244 0
Cable 15m (49.2ft)	615 917 245 0

CABLE FOR BIT TRAY	PART NO.
Extension cable 2m (6.4ft)	615 917 535 0



CABLE FOR ECP / ECA / ECD TOOLS	PART NO.
Nutranner cable 3m (9.8ft)	615 917 461 0
Nutranner 5m (16ft)	615 917 462 0
Nutranner 10m (32.8ft)	615 917 464 0
Nutranner 15m (49.2ft)	615 917 455 0

EXTENSION CABLE FOR ECS / ECP / ECA / ECD TOOLS	PART NO.
Extension cable 5m (16ft)	615 917 222 0
Extension cable 10m (32.8ft)	615 917 224 0

MC

OPTIONAL ACCESSORIES

	PART NO.
• Motor/In-line connector assembly kit for MC35-10 to MC51-20	615 396 198 0



Transducer-holder from MC tool

• 3/8" square drive MC35/MC38	615 396 426 0
• 1/2" square drive MC51-10	615 396 427 0



CABLE FOR MC TOOLS	PART NO.
Tool cable 5m (16ft)	615 917 232 0
Tool cable 10m (32.8ft)	615 917 234 0
Tool cable 15m (49.2ft)	615 917 235 0

EXTENSION CABLE FOR MC TOOLS	PART NO.
Tool extension cable 5m (16ft)	615 917 222 0
Tool extension cable 10m (32.8ft)	615 917 224 0



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SLB screwdrivers controllers

Advanced controller for SLB screwdrivers

Flexible speed

- Speed adjustment

Protection of The parameters

- Setting locked by key



Fastening Strategies

- PreRun reverse
- Slow start
- Final fastening
- Post run reverse

Universal

- Compatible with all the SLBN range



Batch counting

- Incremental or decremental counting up to 99



INPUTS AND OUTPUTS FOR PLC COMMUNICATION

- Inputs:**
- Remote Start
 - Remote Reverse
 - Enable tool A
 - Enable tool B
 - Enable Reverse
 - Reset Batch
 - NOK Acknowledgment
 - Psets 1 to 5
 - PreRun Reverse enable

- Outputs:**
- OK
 - NOK
 - OK Batch
 - Tool running forward
 - Tool running reverse
 - 24/12 Vdc

START-UP KIT to be ordered with the controller

Including: Power cable and plug

PLUG	DESCRIPTION	PART NO.
A	European	615 917 201 0
B	US	615 917 203 0
C	UK	615 917 202 0
D	Chinese	615 917 206 0



PIC REF	MODEL	PART NUMBER	DIMENSIONS						WEIGHT		VOLTAGE VAC	COMPATIBLE TOOLS
			WIDTH		HEIGHT		DEPTH		kg	lb		
			mm	In	mm	In	mm	In	kg	lb		
A	ESP1	615 932 635 0	160	6.3	75	2.95	55	2.17	0.50	1.1	100-240	SLBN003/012/020
B	ESP1-HT	615 932 637 0	213	8.4	131	5.20	65	2.60	1.80	3.9	100-240	SLBN030/050
B	ESP1-HT PLUS	615 932 707 0	213	8.4	131	5.20	65	2.60	1.63	3.6	100-240	SLBN90/120
C	ESP2-A	615 932 708 0	135	5.3	285	11.2	105	4.1	2.8	4.4	100-240	SLBN003-SLBN120



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Low Voltage Screwdriver with clutch shut off - SLB



Flexibility

- Installation by clamping in the top or in the front by a torque fixing ring

ESD Certification

- Dedicated version for Electrostatic discharge component protection

Productivity

- Speed up to 2000 rpm
- Maintenance free thanks to brushless motor

Ergonomy

- Soft Rubber grip
- Low noise level <70dB(A)



Standard Version - SLB

0.02 to 12 Nm (0.18 to 106.2 in.lb) - 160 to 2000 rpm



A



B



C



D



E



F

MODEL	LENGHT		WEIGHT	
	mm	in.	kg	lb.
SLB001	174	6.8	0.17	0.37
SLBN003/010	182	7.2	0.38	0.34
SLBN012/020	245	9.6	0.58	1.28
SLBN030/050	283	11.1	0.80	1.76
SLBN090/120	301	11.8	1.25	2.76

ACCESSORIES
see page 85

PIC REF	MODEL	PART NUMBER	OUTPUT HEX	FREE SPEED		TORQUE RANGE		TORQUE RECOMMENDED		VOLTAGE VDC	CONTROLLER
				in	Hi rpm	Lo rpm	Nm	in.lb	Nm		

LEVER START - LOW VOLTAGE - CLUTCH CONTROL - SHUT OFF

A	SLB001-L1000-SWS	615 165 873 0	whing shank	1000	700	0.02-0.14	0.18-1.32	0.10	0.91	15	ESP1.LT included
A	SLBN003-L230-S4Q	615 165 922 0	1/4	230	160	0.07-0.34	0.62-2.99	0.24	2.09	25	ESP1
A	SLBN003-L1000-S4Q	615 165 923 0	1/4	1000	750	0.07-0.34	0.62-2.99	0.24	2.09	25	ESP1
A	SLBN010-L1000-S4Q	615 165 955 0	1/4	1000	750	0.1-1	0.88-8.8	0.70	6.16	25	ESP1
B	SLBN012-L1000-S4Q	615 165 924 0	1/4	1000	750	0.2-1.18	1.76-10.4	0.83	7.28	32	ESP1
B	SLBN012-L2000-S4Q	615 165 925 0	1/4	2000	1500	0.2-1.18	1.76-10.4	0.83	7.28	32	ESP1
B	SLBN020-L1000-S4Q	615 165 926 0	1/4	1000	750	0.29-1.9	2.57-16.8	1.33	11.76	32	ESP1
C	SLBN030-L1000-S4Q	615 165 927 0	1/4	1000	750	1.00-2.9	8.80-25.7	2.03	17.99	40	ESP1-HT
C	SLBN030-L2000-S4Q	615 165 928 0	1/4	2000	1500	1.00-2.9	8.80-25.7	2.03	17.99	40	ESP1-HT
C	SLBN050-L1000-S4Q	615 165 929 0	1/4	1000	750	2.00-4.9	17.7-44.4	3.43	31.08	40	ESP1-HT
D	SLBN090-L800-S4Q	615 165 947 0	1/4	800	600	3.00-9.0	26.6-79.7	6.30	55.79	40	ESP1-HT PLUS
D	SLBN120-L550-S4Q	615 165 948 0	1/4	550	410	4.00-12	35.4-106.2	8.40	74.34	40	ESP1-HT PLUS

PUSH START - LOW VOLTAGE - CLUTCH CONTROL - SHUT OFF

E	SLBN012-A1000-S4Q	615 165 934 0	1/4	1000	750	0.2-1.18	1.76-10.4	0.83	7.28	32	ESP1
E	SLBN012-A2000-S4Q	615 165 935 0	1/4	2000	1500	0.2-1.18	1.76-10.4	0.83	7.28	32	ESP1
E	SLBN020-A1000-S4Q	615 165 936 0	1/4	1000	750	0.29-1.9	2.57-16.8	1.33	11.76	32	ESP1
F	SLBN030-A1000-S4Q	615 165 937 0	1/4	1000	750	1.00-2.9	8.80-25.7	2.03	17.99	40	ESP1-HT
F	SLBN030-A2000-S4Q	615 165 938 0	1/4	2000	1500	1.00-2.9	8.80-25.7	2.03	17.99	40	ESP1-HT
F	SLBN050-A1000-S4Q	615 165 939 0	1/4	1000	750	2.00-4.9	17.7-44.4	3.43	31.08	40	ESP1-HT
D	SLBN090-A800-S4Q	615 165 951 0	1/4	800	600	3.00-9.0	26.6-79.7	6.30	55.79	40	ESP1-HT PLUS
D	SLBN120-A550-S4Q	615 165 952 0	1/4	550	410	4.00-12	35.4-106.2	8.40	74.34	40	ESP1-HT PLUS



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ESP C / ESP CA

Advanced controller SLC range

- Auto stop after elapsed time and auto reverse

- OK/NOK with rehit protection

- I/O for integration with PLC for multiple functions

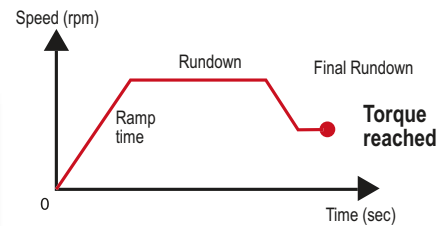


A



- Easy to use
- Flexible keypad
- Multi languages

- Speed control at all steps of operation: start, rundown and final phase



- Replace several tools by one
- Multi torque strategy



B

- Automatic sequence
- Up to 8 programs

- User friendly interface
- Avoid time and Energy lost in programming

- POKE YOKE & Fastening Assurance System

- User friendly interface
- Avoid time and Energy lost in programming



- USB key
- Results saving
- Statistics

- High Torque Phase (HLT)
- For all Self Tapping/ Cutting applications

START-UP KIT to be ordered with the controller Including: Power cable and plug

PLUG	DESCRIPTION	PART NO.
A	European	615 917 201 0
B	US	615 917 203 0
C	UK	615 917 202 0
D	Chinese	615 917 206 0



PIC REF	MODEL	PART NUMBER	TORQUE RANGE		SUPPLY VOLTAGE	DIMENSIONS						WEIGHT	
			Nm	in.lb		WIDTH		HEIGHT		DEPTH		kg	lb
A	ESP C 220V	615 165 480 0	0.5-15	4.4-132.7	AC 230V 50Hz	195	7.7	89	3.5	154	6.0	3.4	7.4
A	ESP C 110V	615 165 484 0	0.5-15	4.4-132.7	AC 120V 60Hz	195	7.7	89	3.5	154	6.0	3.4	7.4
A	ESP C LT 220V	615 165 481 0	0.5-7.0	4.4-61.9	AC 230V 50Hz	195	7.7	89	3.5	154	6.0	3.4	7.4
A	ESP C LT 110V	615 165 485 0	0.5-7.0	4.4-61.9	AC 120V 60Hz	195	7.7	89	3.5	154	6.0	3.4	7.4
B	ESP CA 220V	615 165 482 0	-	-	AC 230V 50 Hz	208	8.2	120	4.7	206	8.1	3.4	7.5
B	ESP CA LT 220V	615 165 483 0	-	-	AC 230V 50 Hz	208	8.2	120	4.7	206	8.1	3.4	7.5
B	ESP CA 110V	615 165 486 0	-	-	AC 120V 60 Hz	208	8.2	120	4.7	206	8.1	3.4	7.5
B	ESP CA LT 110V	615 165 487 0	-	-	AC 120V 60 Hz	208	8.2	120	4.7	206	8.1	3.4	7.5

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High power screwdrivers - SLC

Torque Range

Performance of Electric Screwdrivers - Series SLC

		SPEED RANGE	SHAPE
		rpm	
SLC 30 / ESP C(A)LT	Soft joint	400-1200	In-line - Angle Head Pistol - Spindle
	Hard joint		
SLC 100 / ESP C(A)LT	Soft joint	130-400	In-line - Angle Head Pistol - Spindle
	Hard joint		
SLC 100 / ESP C(A)	Soft joint	200-600	In-line Pistol - Spindle Angle Head
	Hard joint		
	Soft joint & Hard joint		
SLC 150 / ESP C(A)LT	Soft joint	70-220	In-line Pistol - Spindle
	Hard joint		
SLC 150 / ESP C(A)	Soft joint	100-320	In-line Pistol - Spindle
	Hard joint		

Torque Nm

0 0.5 1 1.5 2 3 4 5 6 6.5 7 8 9 10 11 12 13 14 15 16

In-line and Angle head screwdrivers - SLC

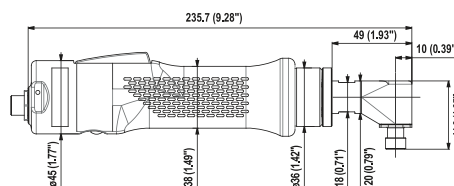
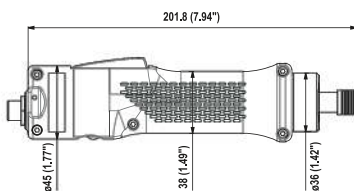
0.5 to 15 Nm (4.4 to 132.7 in.lb) - 70 to 1200 rpm



A



B



ACCESSORIES
see page 85



PIC REF	MODEL	PART NUMBER	OUTPUT HEX	FREE SPEED	TORQUE RANGE				WEIGHT		CONTROLLER
					SOFT	SOFT	HARD	HARD	kg	lb	
			in.	rpm	Nm	in.lb	Nm	in.lb			

IN-LINE - LOW VOLTAGE - CURRENT CONTROL - SHUT OFF

A	SLC030-L1200-C4Q	615 165 500 0	1/4	400-1200	0.5-2	4.4-17.7	0.6-3	5.3-26.5	0.5	1.1	ESP C(A) LT
A	SLC100-L600-C4Q	615 165 466 0	1/4	130-400	0.5-4	4.4-35.4	0.8-6	7.1-53.1	0.5	1.1	ESP C(A) LT
			1/4	200-600	2.0-8	17.7-70.8	2.0-10	17.7-88.5	0.5	1.1	ESP C(A)
A	SLC150-L320-C4Q	615 165 467 0	1/4	70-220	0.5-6	4.4-53.1	1.5-7	13.3-61.9	0.5	1.1	ESP C(A) LT
			1/4	100-320	2.0-12	17.7-106.2	2.0-15	17.7-132.7	0.5	1.1	ESP C(A)

ANGLE HEAD - LOW VOLTAGE - CURRENT CONTROL - SHUT OFF

B	SLC030-L1200-C90A4H	615 165 478 0	1/4	400-1200	0.5-2	4.4-17.7	0.6-3	5.3-26.5	0.7	1.5	ESP C(A) LT
B	SLC100-L600-C90A4H		1/4	130-400	0.5-4	4.4-35.4	0.8-6	7.1-53.1	0.7	1.5	ESP C(A) LT
									0.7	1.5	ESP C(A)



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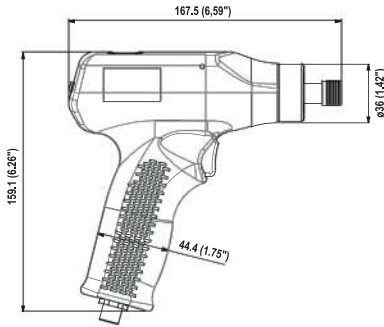
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Desoutter



Pistol grip screwdrivers - SLC

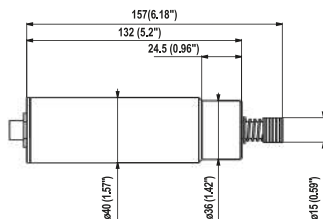
0.5 to 15 Nm (4.4 to 132.7 in.lb) - 70 to 1200 rpm



PIC REF	MODEL	PART NUMBER	OUTPUT HEX	FREE SPEED	TORQUE RANGE				WEIGHT		CONTROLLER
					SOFT Nm	SOFT in.lb	HARD Nm	HARD in.lb	kg	lb	
PISTOL GRIP - LOW VOLTAGE - CURRENT CONTROL - SHUT OFF											
A	SLC030-P1200-C4Q	615 165 488 0	1/4	400-1200	0.5-2	4.4-17.7	0.6-3	5.3-26.5	0.6	1.3	ESP C(A) LT
A	SLC100-P600-C4Q	615 165 462 0	1/4	130-400	0.5-4	4.4-35.4	0.8-6	7.1-53.1	0.6	1.3	ESP C(A) LT
			1/4	200-600	2.0-8	17.7-70.8	2.0-10	17.7-88.5	0.6	1.3	ESP C(A)
A	SLC150-P320-C4Q	615 165 463 0	1/4	70-220	0.5-6	4.4-53.1	1.5-7	13.3-61.9	0.6	1.3	ESP C(A) LT
			1/4	100-320	2.0-12	17.7-106.2	2.0-15	17.7-132.7	0.6	1.3	ESP C(A)
PISTOL GRIP WITH TOP CONNECTOR - CURRENT CONTROL - SHUT OFF											
B	SLC030-T1200-C4Q	615 165 489 0	1/4	400-1200	0.5-2	4.4-17.7	0.6-3	5.3-26.5	0.6	1.3	ESP C(A) LT
B	SLC100-T600-C4Q	615 165 464 0	1/4	130-400	0.5-4	4.4-35.4	0.8-6	7.1-53.1	0.6	1.3	ESP C(A) LT
			1/4	200-600	2.0-8	17.7-70.8	2.0-10	17.7-88.5	0.6	1.3	ESP C(A)
B	SLC150-T320-C4Q	615 165 465 0	1/4	70-220	0.5-6	4.4-53.1	1.5-7	13.3-61.9	0.6	1.3	ESP C(A) LT
			1/4	100-320	2.0-12	17.7-106.2	2.0-15	17.7-132.7	0.6	1.3	ESP C(A)

SLC - Automation - Remote start

0.5 to 15 Nm (4.4 to 132.7 in.lb) - 70 to 1200 rpm



PIC REF	MODEL	PART NUMBER	OUTPUT HEX	FREE SPEED	TORQUE RANGE				WEIGHT		CONTROLLER
					SOFT Nm	SOFT in.lb	HARD Nm	HARD in.lb	kg	lb	
AUTOMATION - REMOTE START											
A	SLC030-F1200-C4Q	615 165 490 0	1/4	400-1200	0.5-2	4.4-17.7	0.6-3	5.3-26.5	0.5	1.1	ESP C(A) LT
A	SLC100-F600-C4Q	615 165 468 0	1/4	130-400	0.5-4	4.4-35.4	0.8-6	7.1-53.1	0.5	1.1	ESP C(A) LT
			1/4	200-600	2.0-8	17.7-70.8	2.0-10	17.7-88.5	0.5	1.1	ESP C(A)
A	SLC150-F320-C4Q	615 165 469 0	1/4	70-220	0.5-6	4.4-53.1	1.5-7	13.3-61.9	0.5	1.1	ESP C(A) LT
			1/4	100-320	2.0-12	17.7-106.2	2.0-15	17.7-132.7	0.5	1.1	ESP C(A)

SLB / SLC

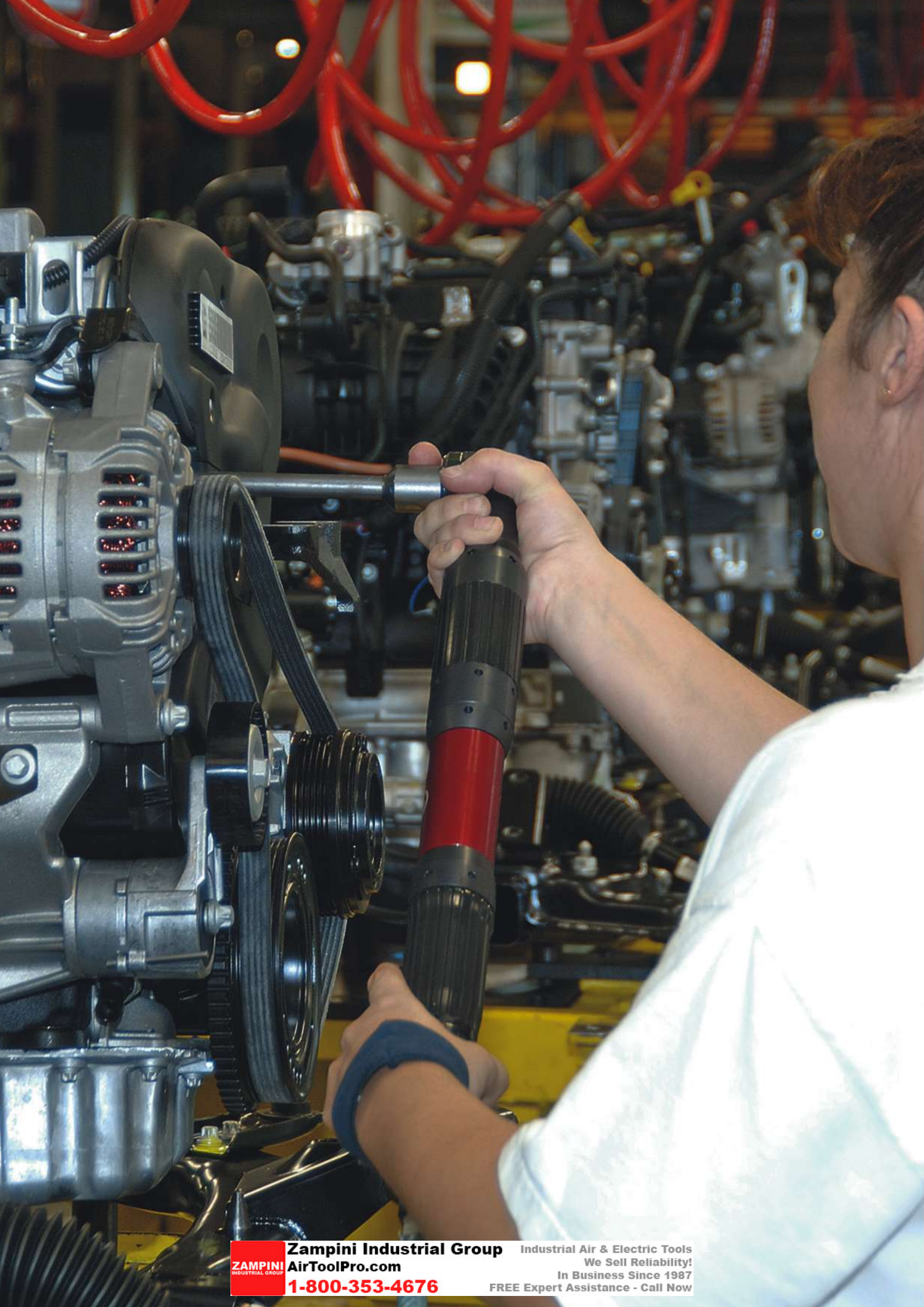
ACCESSORIES INCLUDED

	SLB	SLC
• Suspension bail		615 360 222 0
• Torque fixing ring for SLB003	615 225 053 0	
• Torque fixing ring for SLB012/020	615 548 218 0	
• Torque fixing ring for SLB030/050	615 548 219 0	
• Tool / Controller cable L = 2.5m (8.2ft)	-	615 360 223 0
• Cable L = 1.83m (6ft)	615 397 416 0	

OPTIONAL ACCESSORIES

ITEM	SLB	SLC
SLB Tools		
1 Control Box	615 932 709 0	
2 Pistol grip (Trigger) for SLB030/050	615 397 918 0	
2 Pistol grip (Push) for SLB030/050	615 397 919 0	
2 Pistol grip (Push) for SLB012/020	77562	
• Cable, 10m (32.8 ft)	615 360 379 0	
• Wall fixing plate for ESP1-HT	615 571 085 5	
• Clamp ring for SLB012/020	615 399 057 0	
• Clamp ring for SLB030/050	615 397 815 0	
• Adaptor M20 SLB012/020	615 548 151 5	
• Adaptor M20 SLB 030/050	615 548 152 5	
3 Angle head for SLB012/020	615 398 033 0	
3 Angle head for SLB030/050	615 398 034 0	
SLC Tools		
4 Side Handle		615 397 016 0
5 Color ring (3)		615 397 008 5
• Cable extension L = 2m (6.6ft)		615 917 593 0
6 Spiral cable L = 2m (6.6ft)		615 917 594 0
• M20 adaptor		615 567 132 0
7 Bit tray		615 936 068 0
8 Switch box		615 936 069 0
Spring Loaded Shafts and Bearings Support		
9 Bit Adaptor		103782
10 Spring Loaded Shaft 25mm (1") stroke, 3/8" Sq Drive		108342
11 Shaft Support and Nose Mount		108412
Nose Mounts for SLC-M20		
12 Nose Mount		205 052 876 3
13 Flange		205 052 875 3
Offset Head and Spring Loaded Shaft		
10 Spring loaded shaft 25mm (1") stroke, 3/8" square drive		108352
14 Offset Head, Offset 30mm (1.18")		384993
Screwdriver Bit Adaptor		
15 3/8" Square to 1/4" HexPower Adaptor		108322
Balancers and Holster		
16 Spring Suspension Balancer		50522
17 Reaction Free Self Lock Balancer		54422
18 Tool holster DTH-42		107892
19 Tool holster DTH90		615 812 119 0
Ergonomic accessories		
20 D53 - Linear & Folder arms		see page 147
21 TRA - Telescopic arms		see page 156
22 D57, D58 - Balancing arms		see page 160



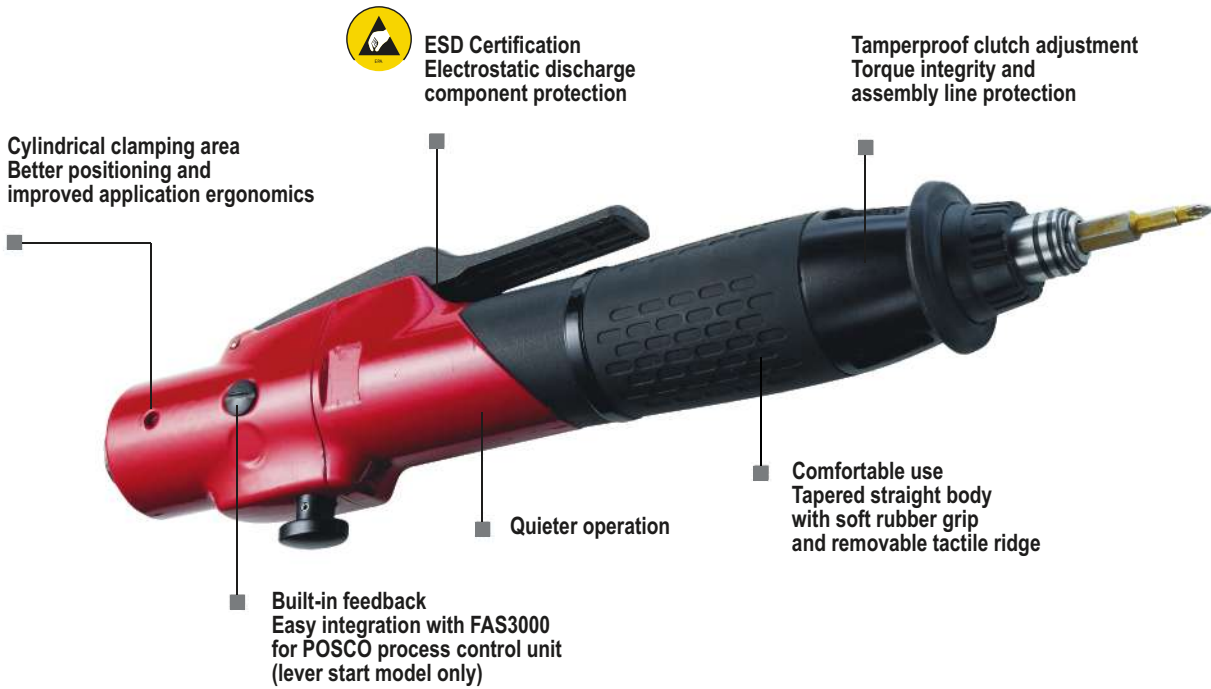


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Pneumatic fastening tools

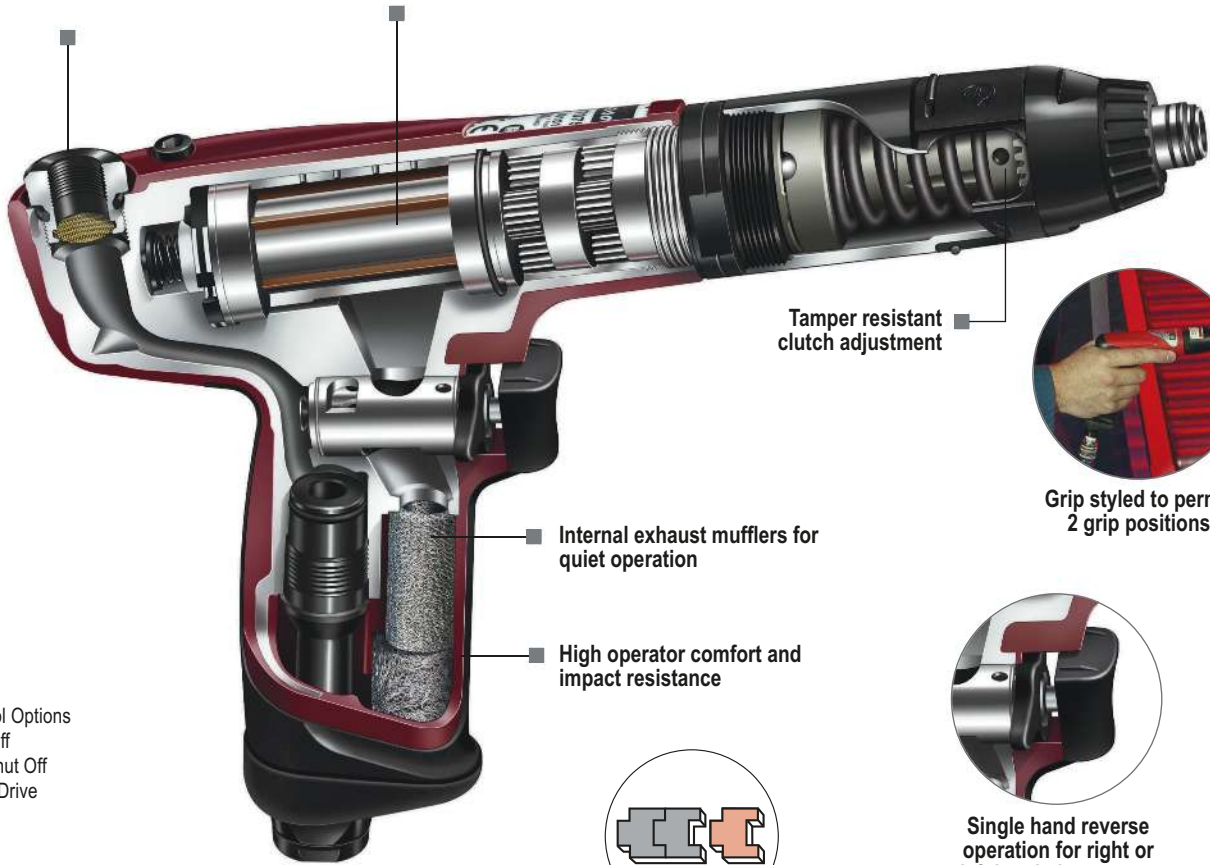
Shut Off, Non Shut Off, Direct Drive, Automatic Reverse



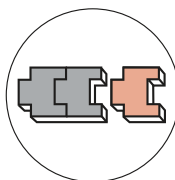
T shape grip for better balance to enhance operator comfort

Powerful, efficient, Dryline™ motor

CLUTCH AND MOTOR PROLONGING TOOL LIFE



- 3 Control Options
- Shut Off
 - Non Shut Off
 - Direct Drive



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Tool selection

CRITERIA

- Type of Fastener/Component
- Joint integrity
- Torque Required
- Tool Orientation and Operator Reference
- Productivity
- Access

TYPE OF FASTENER/COMPONENT

FASTENER/COMPONENT	RECOMMENDED TOOL TYPE
Machine Screw/Nut 	Shut Off/Impulse/Non Shut Off
Thread Rolling/Forming 	Shut Off/HLT/Impulse/Direct Drive
Self Tapping 	Non Shut Off/HLT/Direct Drive
Self Tapping in Plastic/ Thin Materials 	Shut Off/HLT
Self Drilling 	Non Shut Off/HLT/Direct Drive
Wood Screws 	Non Shut Off/Direct Drive

FASTENER/COMPONENT	RECOMMENDED TOOL TYPE
Screws with Adhesive 	HLT/Non Shut Off/Impulse
Self Lock Nuts 	HLT/Non Shut Off/Impulse
Misaligned Holes 	HLT
Variable Size Holes 	HLT
Fragile Components 	HLT/Low Voltage Screwdrivers



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Tool selection

FASTENER TORQUE VALUES

MACHINE SCREWS						THREAD FORMING/ ROLLING SCREWS
ISO	4.6	5.8	8.8	10.9	12.9	8.8
THREAD SIZE	RECOMMENDED TORQUE (NM)					RECOMMENDED TORQUE (NM)
M1.6	0.07	0.12	0.19	–	–	–
M2	0.15	0.24	0.38	–	–	0.5
M2.2	0.19	0.31	0.51	–	–	–
M2.5	0.28	0.48	0.77	–	–	–
M3	0.51	0.85	1.4	1.9	2.3	1.4
M3.5	0.80	1.34	2.2	3.0	3.6	–
M4	1.20	2.00	3.2	4.5	5.4	3.2
M5	2.40	4.00	6.4	9.0	10.7	6.5
M6	4.10	6.80	10.9	15.3	18.3	11
M8	9.80	16.3	26.1	36.8	44.1	26
M10	19.3	32.2	51.5	72	86.9	52
M12	33.6	56.0	90	126	151	91
M14	53.0	89.0	142	200	239	–
M16	82.0	136	218	307	368	–
M18	114	190	304	428	513	–
M20	160	266	426	598	718	–
M22	215	358	573	806	967	–

SELF TAPPING/DRILLING SCREWS	
THREAD SIZE	RECOMMENDED TORQUE (NM)
ST2.2 (B2)	0.2
ST2.9 (B4)	1.0
ST3.5 (B6)	1.8
ST4.2 (B8)	2.9
ST4.8 (B10)	4.2
ST5.5 (B12)	6.7
ST6.3 (B14)	9.1

CONVERSION FACTORS

Nm x 141.6 = oz in
 Nm x 8.851 = in lb
 Nm x 0.73756 = ft lb
 Nm x 0.102 = kgf m/kpm
 Nm x 10.2 = kgf cm

Torque figures should be used as a guide only
 Table assumes fasteners are new, lightly lubricated and of a standard finish
 For lock nuts with a nylon insert, +10%
 Torque values are recommended values for a working pressure of 6,3 bar (90 PSIG)

For non metric threads please use the following data as a guide.

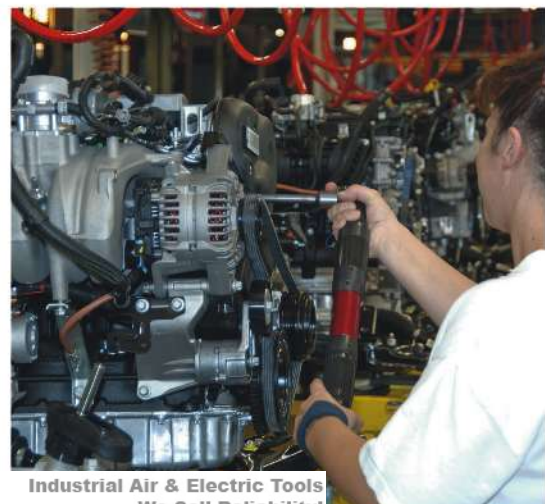
Recommended Maximum Torque Values – UNC Thread

THREAD SIZE	QUALITY P		QUALITY S		QUALITY T	
	Nm	ft.lb	Nm	ft.lb	Nm	ft.lb
1/4	5.43	4	10.3	7.6	11	8.2
5/16	11.2	8.3	21.3	15.7	23	16.9
3/8	19.9	14.7	37.9	27.9	40	30.2
7/16	31.9	23.5	60.7	44.8	65	48.31
1/2	48.8	36	92.7	68.4	100	73.8
9/16	70.4	51.9	134	98.8	144	106
5/8	97.4	71.8	185	136.4	200	147.5
3/4	178	131.3	338	249.3	364	268.5
7/8	279	205.8	530	391	572	422
1	418	308.3	795	586	858	633
1 1/8	593	437.4	1126	830	1216	897
1 1/4	837	617.3	1591	1173	1717	1266
1 3/8	1096	808.4	2083	1536	2248	1658
1 1/2	1456	1074	2767	2041	2987	2203

Recommended Maximum Torque Values – UNF Threads

THREAD SIZE	QUALITY P		QUALITY S		QUALITY T	
	Nm	ft.lb	Nm	ft.lb	Nm	ft.lb
1/4	6.3	4.6	11.9	8.8	12.9	9.5
5/16	12.5	9.2	23.8	17.5	25.7	18.9
3/8	22.7	16.7	43.2	31.9	46.6	34.4
7/16	35.9	26.5	68.2	50.3	73.6	54.3
1/2	55.4	40.9	105	77.4	114	84
9/16	79	58.3	150	111	162	119
5/8	111	81.9	210	155	227	167
3/4	195	144	370	273	399	294
7/8	309	228	587	433	634	468
1	459	339	873	644	942	695
1 1/8	667	492	1267	934	1368	1009
1 1/4	925	682	1757	1296	1896	1398
1 3/8	1252	923	2378	1754	2567	1893
1 1/2	1642	1211	3119	2300	3367	2482

Quality P = approximately ISO 4.6 Quality S/T = approximately ISO 8.8 Quality S = ANSI Grade 5



Productivity and Ergonomics

ACCESS



90° Angle Heads



45° Angle Heads



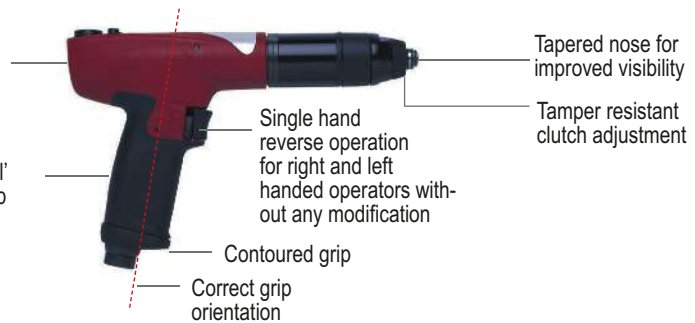
Crowfoot
Open Ended Wrenches

ERGONOMIC BENEFITS

- Lightweight
- Short Length
- Light Start Load

Pistol options of 'P' or 'T' style to suit the application and operator preference

'Warm feel' friction grip



For low vibration exposure and high productivity, select shut off tools where possible

TOOL ORIENTATION AND OPERATOR PREFERENCE



P Shape

Self Tapping/Forming/Cutting Screws
Multi orientation
Top air inlet
Requires balanced tool



Use P Shape - arm in line with body of tool for thrust
Use P Shape - allows wrist to rotate into position
Can only use T Shape
Use T Shape - especially with screwfeeder



Push Start versus Lever Start

Fast Cycle Rate
Single Hand Operation Required
Need to Align/Position Components First

Use push start
Use push start
Use lever start or push + trigger start (SBP/SDP only)

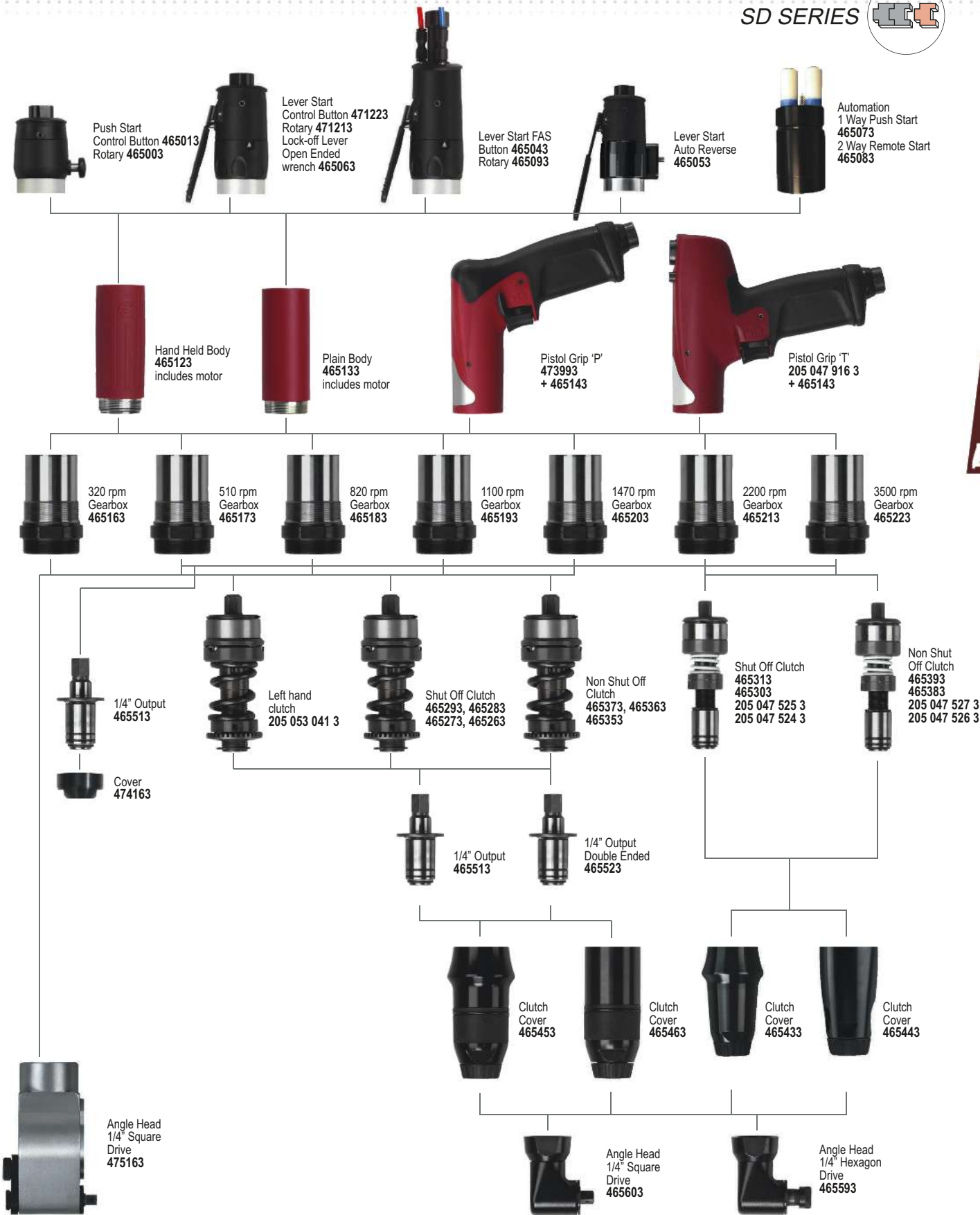
Button Reverse versus Rotary Reverse

Rapid Reverse Required
Thread Chasing Cleaning
Rivnuts/Threaded Fasteners
Long Periods in Reverse

Use button reverse
Use button reverse (auto reverse for blind holes)
Use auto reverse tools
Use rotary reverse



Modularity



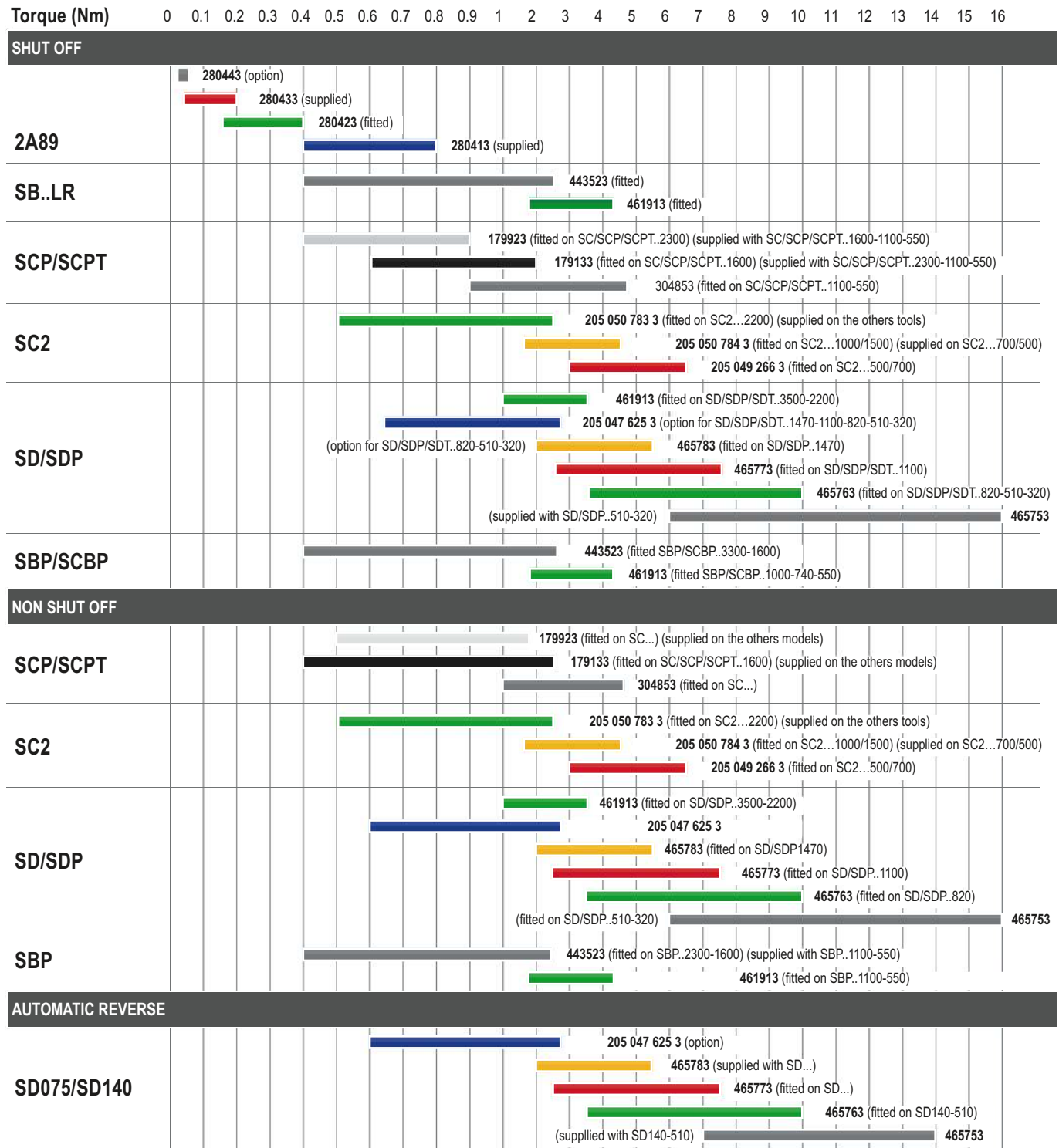
Modularity, a concept for all Desoutter pneumatic screwdrivers range

Screwdriver Torque Ranges

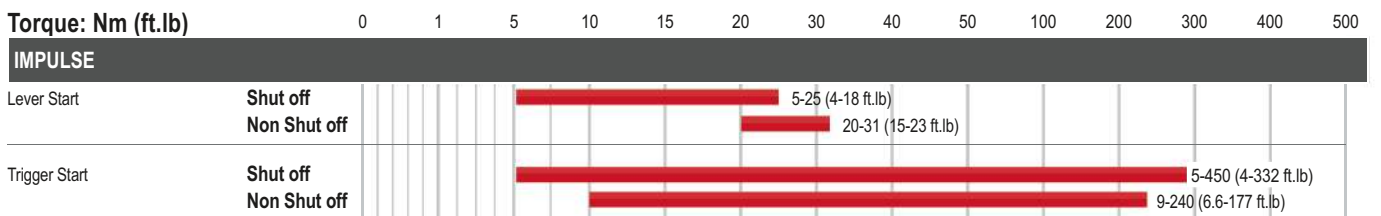
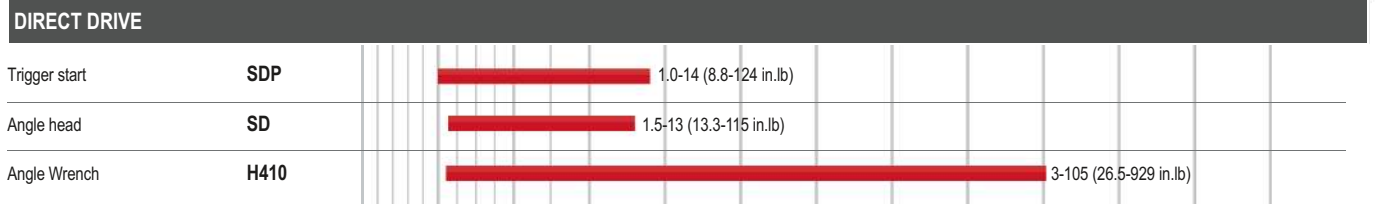
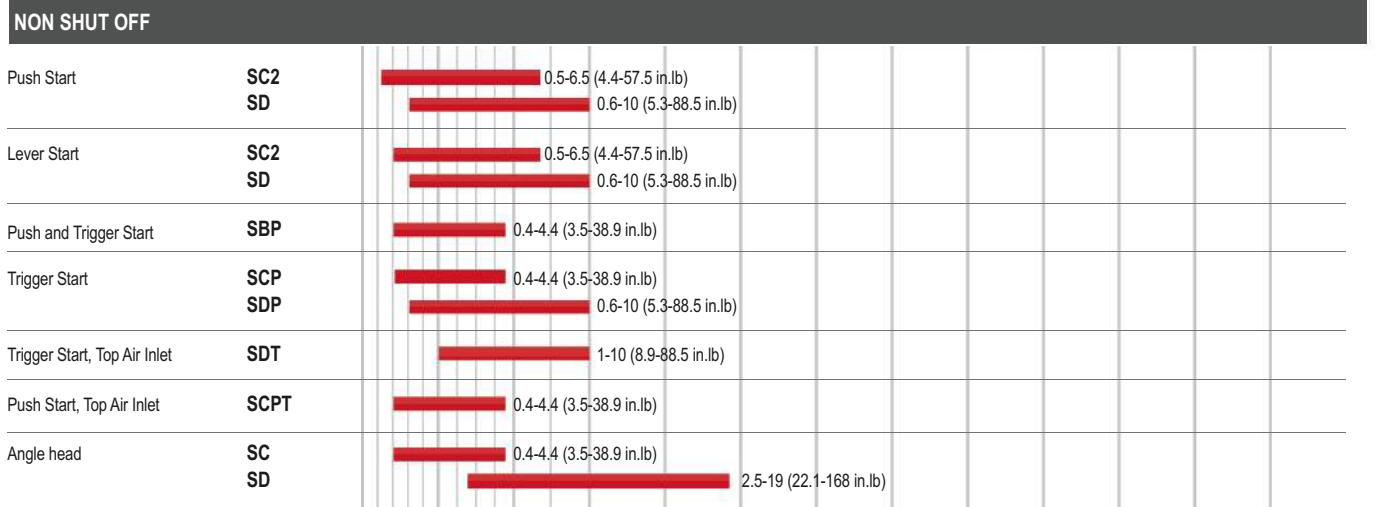
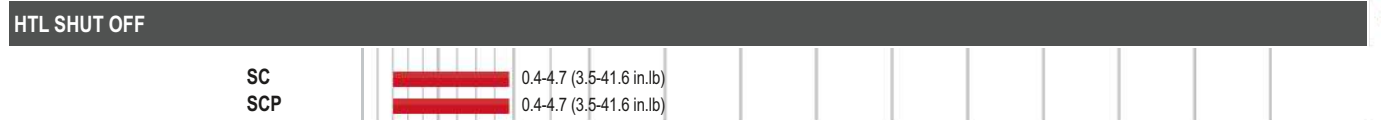
Torque output of the range of shut off and non shut off screwdrivers is controlled by the type of spring in the clutch assembly.

The overall torque range, together with that of the factory fitted spring on a soft joint to ISO5393 are listed in the tables on the following pages. The chart below provides an indication of the torque ranges for the optional colour coded clutch springs together with their respective part numbers (some are included with certain tools) As a general rule, the tool should be fitted with a spring which ensures the torque required falls within 20 to 80% of the operating range.

Please note that the torque range of specific speed tools may alter slightly from that shown below and for this reason the chart should be used as a guide only.



Tool Types and Torque Ranges



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Screwdrivers - Shut off - Push start

0.09 to 16 Nm (0.8 to 142 in.lb) - 320 to 3500 rpm



Model	ø A mm (in.)	ø B mm (in.)	L mm (in.)
2A89..	27 (1.06)		178 (7)
SB..	32 (1.26)	36 (1.42)	197 (7.76)
SC2		37.4 (1.47)	245 (9.65)
SD023..3500	38.7 (1.52)	44 (1.73)	227 (8)
SD035..2200	38.7 (1.52)	44 (1.73)	227 (8)
SD055..1470	38.7 (1.52)	44 (1.73)	253 (10)
SD075..1100	38.7 (1.52)	44 (1.73)	253 (10)
SD100..820	38.7 (1.52)	44 (1.73)	253 (10)
SD140..510	38.7 (1.52)	44 (1.73)	253 (10)
SD160..320	38.7 (1.52)	44 (1.73)	253 (10)

 **ACCESSORIES**
see page 110

Types B to C, 1/4" double ended and 5mm bit holder optional

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET		HOSE INT.Ø	
					rpm	in.	Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	nm
A	2A89-A-1300	1225434	1300	3mm	0.09-0.56	0.8-4.9	0.15-0.43	1.3-3.8	0.21	0.62	2.2	4.7	M5	3	1/8	
A	2A89-A-700	1225514	700	3mm	0.09-0.75	0.8-6.6	0.15-0.43	1.3-3.8	0.21	0.62	2.2	4.7	M5	3	1/8	
A	2A89-A-400	1225694	400	3mm	0.09-0.78	0.8-6.9	0.15-0.43	1.3-3.8	0.21	0.62	2.2	4.7	M5	3	1/8	
A	2A89-A-1300	1223154	1300	1/4	0.09-0.56	0.8-4.9	0.15-0.43	1.3-3.8	0.21	0.62	2.2	4.7	M5	3	1/8	
A	2A89-A-700	1223234	700	1/4	0.09-0.75	0.8-6.6	0.15-0.43	1.3-3.8	0.21	0.62	2.2	4.7	M5	3	1/8	
A	2A89-A-400	1223314	400	1/4	0.09-0.78	0.8-6.9	0.15-0.43	1.3-3.8	0.21	0.62	2.2	4.7	M5	3	1/8	
B	SB011-AB1600-S4Q	1460644	1600	1/4	0.4-1.1	3.5-9.7	0.4-1.1	3.5-9.7	0.42	0.93	4.1	8.7	1/8	5	3/16	
B	SB015-AB1100-S4Q	1460634	1100	1/4	0.4-1.5	3.5-13	0.4-1.5	3.5-13	0.42	0.93	4.1	8.7	1/8	5	3/16	
B	SB025-AB750-S4Q	1460624	750	1/4	0.4-2.5	3.5-22	0.4-2.5	3.5-22	0.42	0.93	4.1	8.7	1/8	5	3/16	
B	SB025-AB500-S4Q	1460684	500	1/4	0.4-2.5	3.5-22	0.4-2.5	3.5-22	0.42	0.93	4.1	8.7	1/8	5	3/16	
C	SB011-AR1600-S4Q	1460524	1600	1/4	0.4-1.1	3.5-9.7	0.4-1.1	3.5-9.7	0.42	0.93	4.1	8.7	1/8	5	3/16	
C	SB015-AR1100-S4Q	1460514	1100	1/4	0.4-1.5	3.5-13	0.4-1.5	3.5-13	0.42	0.93	4.1	8.7	1/8	5	3/16	
C	SB025-AR750-S4Q	1460504	750	1/4	0.4-2.5	3.5-22	0.4-2.5	3.5-22	0.42	0.93	4.1	8.7	1/8	5	3/16	
C	SB025-AR500-S4Q	1460564	500	1/4	0.4-2.5	3.5-22	0.4-2.5	3.5-22	0.42	0.93	4.1	8.7	1/8	5	3/16	
D	SC2-025-A2200-S4Q	205 147 269 4	2200	1/4	0.5-2.5	4.4-22	0.5-2.5	4.4-22.1	0.69	1.52	7.0	14.8	1/4	6	1/4	
D	SC2-035-A1500-S4Q	205 147 268 4	1450	1/4	0.5-3.5	4.4-30.8	1.7-3.5	15.0-30.9	0.69	1.52	7.0	14.8	1/4	6	1/4	
D	SC2-045-A1000-S4Q	205 147 267 4	1000	1/4	0.5-4.5	4.4-39.6	1.7-4.5	15.0-39.8	0.69	1.52	7.0	14.8	1/4	6	1/4	
D	SC2-055-A700-S4Q	205 147 266 4	700	1/4	0.5-5.5	4.4-48.4	3.0-5.5	26.5-48.6	0.69	1.52	7.0	14.8	1/4	6	1/4	
D	SC2-065-A500-S4Q	205 147 265 4	480	1/4	0.5-6.5	4.4-57.2	3.0-6.5	26.5-57.5	0.69	1.52	7.0	14.8	1/4	6	1/4	
E	SD023-AB3500-S4Q	1462834	3500	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	0.73	1.61	8.7	18.4	1/4	10	3/8	
E	SD035-AB2200-S4Q	1462824	2200	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31	0.73	1.61	8.7	18.4	1/4	10	3/8	
E	SD055-AB1470-S4Q	1462814	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.89	1.96	8.7	18.4	1/4	10	3/8	
E	SD075-AB1100-S4Q	1462804	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.0-66.4	0.89	1.96	8.7	18.4	1/4	10	3/8	
E	SD100-AB820-S4Q	1462794	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8	
E	SD140-AB510-S4Q	1462784	510	1/4	0.6-14	5.3-124	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8	
E	SD160-AB320-S4Q	1462774	320	1/4	0.6-16	5.3-142	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8	
F	SD023-AR3500-S4Q	1462764	3500	1/4	1.0-2.3	8.9-20.4	1.0-2.3	8.9-20.4	0.73	1.61	8.7	18.4	1/4	10	3/8	
F	SD035-AR2200-S4Q	1462754	2200	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31	0.73	1.61	8.7	18.4	1/4	10	3/8	
F	SD055-AR1470-S4Q	1462744	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.89	1.96	8.7	18.4	1/4	10	3/8	
F	SD075-AR1100-S4Q	1462734	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.89	1.96	8.7	18.4	1/4	10	3/8	
F	SD100-AR820-S4Q	1462724	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8	
F	SD140-AR510-S4Q	1462714	510	1/4	0.6-14	5.3-124	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8	
F	SD160-AR320-S4Q	1462704	320	1/4	0.6-16	5.3-142	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8	

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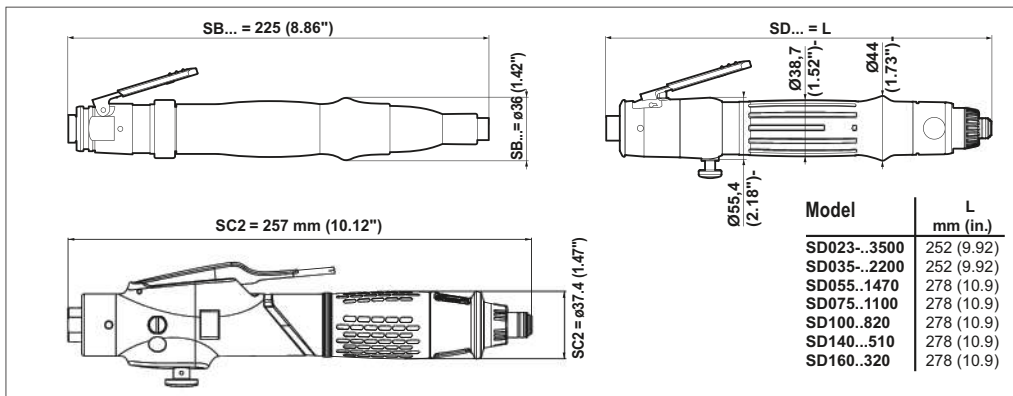
0.4 to 16 Nm (3.5 to 142 in.lb) - 320 to 3500 rpm



Easy integration with
FAS3000 or POSCO



See page 74



ACCESSORIES see page 110

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET	HOSE INT.Ø	
					rpm	in.	Nm	in.lb	Nm	in.lb	kg	lb.		l/s	cfm
A	SB021-LR1400-S4Q	205 147 508 4	1400	1/4	0.5-2.1	4.4-18.6	0.5-2.1	4.4-18.6	0.61	1.34	7.3	15.5	1/8	6	1/4
A	SB043-LR1050-S4Q	205 147 507 4	1050	1/4	0.4-4.3	3.5-38	1.9-4.3	16.7-37.8	0.61	1.34	7.3	15.5	1/8	6	1/4
A	SB047-LR500-S4Q	205 147 506 4	500	1/4	0.4-4.7	3.5-41.6	1.9-4.7	16.7-41.4	0.61	1.34	7.3	15.5	1/8	6	1/4
B	SC2-025-L2200-S4Q	205 147 283 4	2200	1/4	0.5-2.5	4.4-22	0.5-2.5	4.4-22.1	0.69	1.52	7.0	14.8	1/4	6	1/4
B	SC2-035-L1500-S4Q	205 147 282 4	1450	1/4	0.5-3.5	4.4-30.8	1.7-3.5	15.0-30.9	0.69	1.52	7.0	14.8	1/4	6	1/4
B	SC2-045-L1000-S4Q	205 147 281 4	1000	1/4	0.5-4.5	4.4-39.6	1.7-4.5	15.0-39.8	0.69	1.52	7.0	14.8	1/4	6	1/4
B	SC2-055-L700-S4Q	205 147 280 4	700	1/4	0.5-5.5	4.4-48.4	3.0-5.5	26.5-48.6	0.69	1.52	7.0	14.8	1/4	6	1/4
B	SC2-065-L500-S4Q	205 147 279 4	480	1/4	0.5-6.5	4.4-57.2	3.0-6.5	26.5-57.5	0.69	1.52	7.0	14.8	1/4	6	1/4
C	SD023-LB3500-S4Q	1463094	3500	1/4	1.0-2.3	8.9-20.4	1.0-2.3	8.9-20.4	0.76	1.67	8.7	18.4	1/4	10	3/8
C	SD035-LB2200-S4Q	1463084	2200	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31	0.76	1.67	8.7	18.4	1/4	10	3/8
C	SD055-LB1470-S4Q	1463074	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.92	2.03	8.7	18.4	1/4	10	3/8
C	SD075-LB1100-S4Q	1463064	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.92	2.03	8.7	18.4	1/4	10	3/8
C	SD100-LB820-S4Q	1463054	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
C	SD140-LB510-S4Q	1463044	510	1/4	0.6-14	5.3-124	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
C	SD160-LB320-S4Q	1463034	320	1/4	0.6-16	5.3-142	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
D	SD023-LR3500-S4Q	1463024	3500	1/4	1.0-2.3	8.9-20.4	1.0-2.3	8.9-20.4	0.76	1.67	8.7	18.4	1/4	10	3/8
D	SD035-LR2200-S4Q	1463014	2200	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31	0.76	1.67	8.7	18.4	1/4	10	3/8
D	SD055-LR1470-S4Q	1463004	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.92	2.03	8.7	18.4	1/4	10	3/8
D	SD075-LR1100-S4Q	1462994	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.92	2.03	8.7	18.4	1/4	10	3/8
D	SD100-LR820-S4Q	1462984	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
D	SD140-LR510-S4Q	1462974	510	1/4	0.6-14	5.3-124	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8
D	SD160-LR320-S4Q										18.4	1/4	10	3/8	



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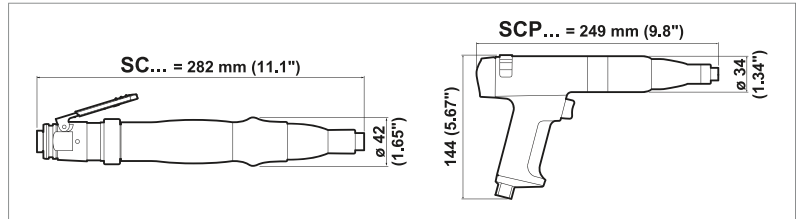
0.4 to 4.7 Nm (3.5 to 41.6 in.lb) - 550 to 1600 rpm



A

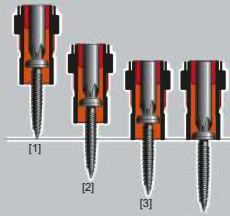


B

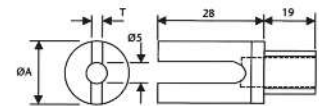
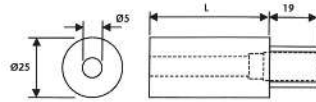
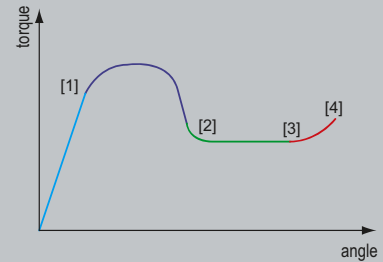


TYPICAL HLT CYCLE

- 1 Tool starts to cut/form thread – direct drive
- 2 Thread is cut/formed, rundown continues direct drive
- 3 Depth stop touches component, drive engages clutch
- 4 Final torque achieved, clutch operates and air supply is shut off



Depth stop changes tool from direct drive to clutch operation



DEPTH STOPS

PIC REF	PART NUMBER	LENGTH
		mm
C	440833	28
C	440843	48
C	440853	127

PIC REF	PART NUMBER	T	ØA
		mm	mm
D	440863*	5	25

* Supplied with tools

ACCESSORIES
see page 110

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET		HOSE INT. Ø
			rpm	in.	Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.
A	SC009-L1600-HLT4M	1459644	1600	1/4	0.4-0.9	3.5-7.9	0.4-0.9	3.5-7.9	0.79	1.74	7	15.4	1/8	6	1/4
A	SC021-L1600-HLT4M	1459614	1600	1/4	0.6-2.1	5.3-18.6	0.6-2.1	5.3-18.6	0.79	1.74	7	15.4	1/8	6	1/4
A	SC022-L1100-HLT4M	1459654	1100	1/4	0.6-2.1	5.3-18.6	0.6-2.1	5.3-18.6	0.79	1.74	7	15.4	1/8	6	1/4
A	SC022-L550-HLT4M	1459664	550	1/4	0.6-2.1	5.3-18.6	0.6-2.1	5.3-18.6	0.79	1.74	7	15.4	1/8	6	1/4
A	SC043-L1100-HLT4M	1459624	1100	1/4	0.9-4.3	7.9-38.0	0.9-4.3	7.9-38.0	0.79	1.74	7	15.4	1/8	6	1/4
A	SC047-L550-HLT4M	1459634	550	1/4	0.9-4.7	7.9-41.6	0.9-4.7	7.9-41.6	0.79	1.74	7	15.4	1/8	6	1/4
B	SCP009-T1600-HLT4M	1459704	1600	1/4	0.4-0.9	3.5-7.9	0.4-0.9	3.5-7.9	1.00	2.20	7	15.4	1/8	6	1/4
B	SCP021-T1600-HLT4M	1459714	1600	1/4	0.6-2.1	5.3-18.6	0.6-2.1	5.3-18.6	1.00	2.20	7	15.4	1/8	6	1/4
B	SCP043-T1100-HLT4M	1459734	1100	1/4	0.9-4.3	7.9-38.0	0.9-4.3	7.9-38.0	1.00	2.20	7	15.4	1/8	6	1/4
B	SCP047-T550-HLT4M										7	15.4	1/8	6	1/4



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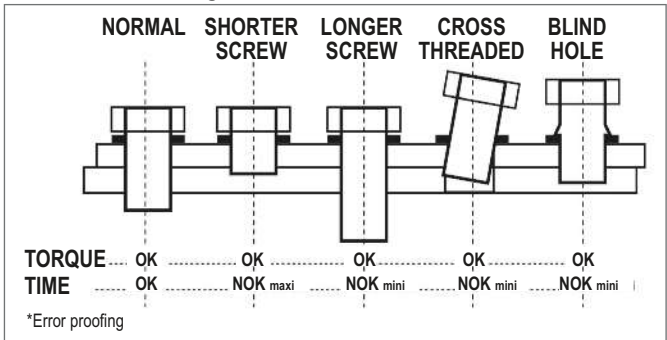
FAS3000 - Fastening Assurance System

The FAS3000 – Fastening Assurance System provides the ability to verify that all the fasteners in an assembly have been correctly fastened without the level of investment usually associated with assembly control systems and additional inspection.

Features

- Automatic and quick calibration
- 8 programs for different fastener profiles
- Up to 250 fasteners per program
- OK and Not OK visual indicators for each fastener
- Audible error warning for Not OK
- 'Group Cycle Complete' visual indicator
- Manual lockable reset switch
- Password protection of parameters
- 4 output sockets for interfacing with other equipment including inputs as well as output signals
- EMC approved

Coded error messages



START-UP KIT to be ordered with the FAS3000

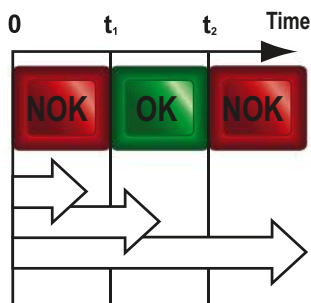
POWER CABLE AND PLUG	LENGTH	PART NO.
A Power Cable European	2m (6.56ft)	615 917 201 0
B Power Cable USA	2m (6.56ft)	615 917 203 0
C Power Cable English	2m (6.56ft)	615 917 202 0

ACCESSORIES INCLUDED

ITEM	LENGTH	PART NO.
D Sensor Assembly	2m (6.56ft)	205 047 908 3
E Sensor electric cord	5m (16.4ft)	205 047 964 3

MODEL	PART NUMBER	DIMENSIONS						WEIGHT		SUPPLY VOLTAGE
		LENGTH		WIDTH		HEIGHT		kg	lb.	
FAS3000	205 146 677 4	mm	in.	mm	in.	mm	in.	3	6.6	AC220-240V, 50Hz & AC110-120V, 60Hz

By comparing the timing of pneumatic signals from a shut off screwdriver with set parameters, the fastening cycle can be monitored and output signals generated for OK and NOK

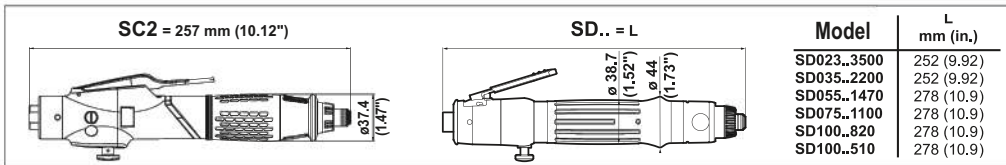


OPERATING SEQUENCE

- t_1 = Minimum time
- t_2 = Maximum time
- Clutch operated before minimum time, lever/trigger released before minimum time
- Indicates crossed thread, screw too short, thread too short, too many washers
- Clutch operated within time limits - OK
- Clutch operated after maximum time Screw too long, no thread in component, stripped thread, no washers on assembly

Screwdrivers - Non Shut off - Push and Lever start

0.4 to 10 Nm (3.5 to 88.5 in.lb) - 510 to 3500 rpm



ACCESSORIES
see page 110

Types A, B and F - 5/16" hex bit holder optional

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET		HOSE INT.Ø	
					Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.	
			rpm	in.	Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.	
PUSH START																
A	SC2-035-A1500-R4Q	205 147 275 4	1450	1/4	0.5-3.5	4.4-30.8	1.7-3.5	15.0-30.9	0.69	1.52	7.0	14.8	1/4	6	1/4	
A	SC2-045-A1000-R4Q	205 147 274 4	1000	1/4	0.5-4.5	4.4-39.6	1.7-4.5	15.0-39.8	0.69	1.52	7.0	14.8	1/4	6	1/4	
A	SC2-055-A700-R4Q	205 147 273 4	700	1/4	0.5-5.5	4.4-48.4	3.0-5.5	26.5-48.6	0.69	1.52	7.0	14.8	1/4	6	1/4	
A	SC2-065-A500-R4Q	205 147 272 4	480	1/4	0.5-6.5	4.4-57.2	3.0-6.5	26.5-57.5	0.69	1.52	7.0	14.8	1/4	6	1/4	
B	SD023-AB3500-R4Q	1462954	3500	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	0.73	1.61	8.7	18.4	1/4	10	3/8	
B	SD035-AB2200-R4Q	1462944	2200	1/4	1.0-3.5	8.9-31.0	1.0-3.5	8.9-31.0	0.73	1.61	8.7	18.4	1/4	10	3/8	
B	SD055-AB1470-R4Q	1462934	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.89	1.96	8.7	18.4	1/4	10	3/8	
B	SD075-AB1100-R4Q	1462924	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.89	1.96	8.7	18.4	1/4	10	3/8	
B	SD100-AB820-R4Q	1462914	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8	
B	SD100-AB510-R4Q	1462904	510	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8	
C	SD023-AR3500-R4Q	1462894	3500	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	0.73	1.61	8.7	18.4	1/4	10	3/8	
C	SD035-AR2200-R4Q	1462884	2200	1/4	1.0-3.5	8.9-31.0	1.0-3.5	8.9-31.0	0.73	1.61	8.7	18.4	1/4	10	3/8	
C	SD055-AR1470-R4Q	1462874	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.89	1.96	8.7	18.4	1/4	10	3/8	
C	SD075-AR1100-R4Q	1462864	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.89	1.96	8.7	18.4	1/4	10	3/8	
C	SD100-AR820-R4Q	1462854	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8	
C	SD100-AR510-R4Q	1462844	510	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8	

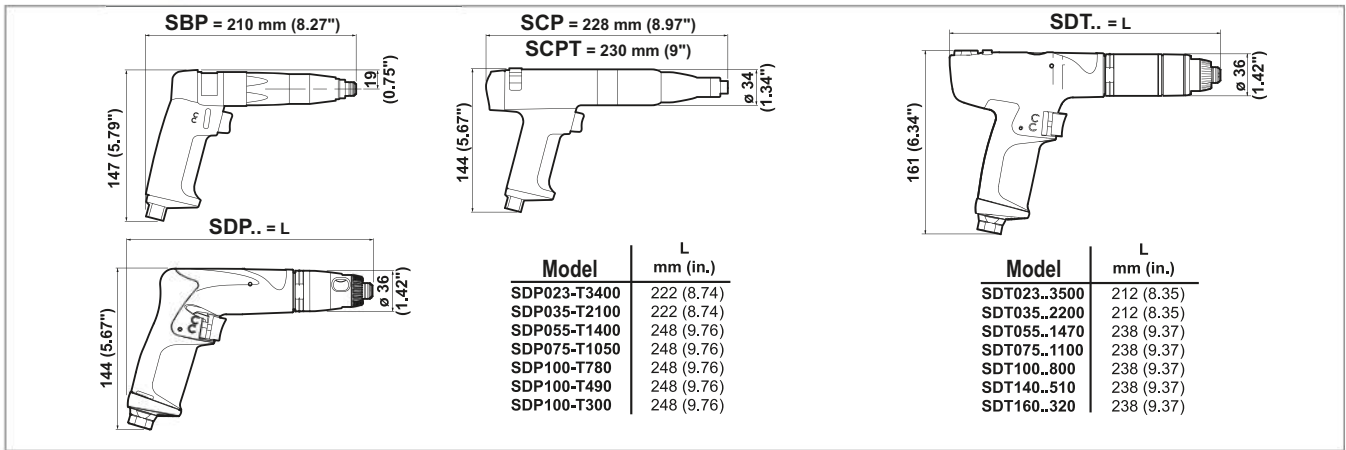
LEVER START

D	SC2-045-A1000-S4Q	205 147 267 4	1000	1/4	0.5-4.5	4.4-39.6	1.7-4.5	15.0-39.8	0.69	1.52	7.0	14.8	1/4	6	1/4	
D	SC2-025-L2200-R4Q	205 147 290 4	2200	1/4	0.5-2.5	4.4-22.0	0.5-2.5	4.4-22.1	0.69	1.52	7.0	14.8	1/4	6	1/4	
D	SC2-035-L1500-R4Q	205 147 289 4	1450	1/4	0.5-3.5	4.4-30.8	1.7-3.5	15.0-30.9	0.69	1.52	7.0	14.8	1/4	6	1/4	
D	SC2-045-L1000-R4Q	205 147 288 4	1000	1/4	0.5-4.5	4.4-39.6	1.7-4.5	15.0-39.8	0.69	1.52	7.0	14.8	1/4	6	1/4	
D	SC2-055-L700-R4Q	205 147 287 4	700	1/4	0.5-5.5	4.4-48.4	3.0-5.5	26.5-48.6	0.69	1.52	7.0	14.8	1/4	6	1/4	
D	SC2-065-L500-R4Q	205 147 286 4	480	1/4	0.5-6.5	4.4-57.2	3.0-6.5	26.5-57.5	0.69	1.52	7.0	14.8	1/4	6	1/4	
E	SD023-LB3500-R4Q	1463214	3500	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	0.76	1.67	8.7	18.4	1/4	10	3/8	
E	SD035-LB2200-R4Q	1463204	2200	1/4	1.0-3.5	8.9-31.0	1.0-3.5	8.9-31.0	0.76	1.67	8.7	18.4	1/4	10	3/8	
E	SD055-LB1470-R4Q	1463194	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.92	2.03	8.7	18.4	1/4	10	3/8	
E	SD075-LB1100-R4Q	1463184	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.92	2.03	8.7	18.4	1/4	10	3/8	
E	SD100-LB820-R4Q	1463174	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8	
E	SD100-LB510-R4Q	1463164	510	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8	
F	SD023-LR3500-R4Q	1463154	3500	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	0.76	1.67	8.7	18.4	1/4	10	3/8	
F	SD035-LR2200-R4Q	1463144	2200	1/4	1.0-3.5	8.9-31.0	1.0-3.5	8.9-31.0	0.76	1.67	8.7	18.4	1/4	10	3/8	
F	SD055-LR1470-R4Q	1463134	1470	1/4	0.6-5.5	5.3-48.7	2.0-5.5	17.7-48.7	0.92	2.03	8.7	18.4	1/4	10	3/8	
F	SD075-LR1100-R4Q	1463124	1100	1/4	0.6-7.5	5.3-66.4	2.5-7.5	22.1-66.4	0.92	2.03	8.7	18.4	1/4	10	3/8	
F	SD100-LR820-R4Q	1463114	820	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8	
F	SD100-LR510-R4Q	1463104	510	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	0.92	2.03	8.7	18.4	1/4	10	3/8	

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Screwdrivers - Non Shut Off - Pistol Grip

0.4 to 10 Nm (3.5 to 88.5 in.lb) - 300 to 3500 rpm



 **ACCESSORIES**
see page 110

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET	HOSE INT.Ø	
					Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.

PUSH AND TRIGGER START

A	SBP024-T2300-R4Q	1462184	2300	1/4	0.5-2.4	4.4-21.2	0.5-2.4	4.4-21.2	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SBP022-T1600-R4Q	1462194	1600	1/4	0.5-2.2	4.4-19.4	0.5-2.2	4.4-19.4	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SBP044-T1100-R4Q	1462204	1100	1/4	0.4-4.4	3.5-38.9	1.8-4.4	15.9-38.9	0.82	1.81	6.5	13.8	1/8	6	1/4
A	SBP044-T550-R4Q	1462214	550	1/4	0.4-4.4	3.5-38.9	1.8-4.4	15.9-38.9	0.82	1.81	6.5	13.8	1/8	6	1/4

TRIGGER START

B	SCP022-T1600-R4Q	1456784	1600	1/4	0.5-2.2	4.4-19.4	0.8-2.2	7.1-19.4	0.86	1.89	6.5	13.8	1/8	6	1/4
B	SCP044-T1100-R4Q	1456794	1100	1/4	0.4-4.4	3.5-38.9	1.3-4.4	11.5-38.9	0.86	1.89	6.5	13.8	1/8	6	1/4
B	SCP044-T550-R4Q	1456804	550	1/4	0.4-4.4	3.5-38.9	1.0-4.4	8.9-38.9	0.86	1.89	6.5	13.8	1/8	6	1/4
C	SDP023-T3400-R4Q	1465644	3400	1/4	1.0-2.3	8.8-20.3	1.0-2.3	8.9-20.3	0.90	1.98	9.0	19.1	1/4	10	3/8
C	SDP035-T2100-R4Q	1465634	2100	1/4	1.0-3.5	8.8-31.0	1.0-3.5	8.9-31.0	0.90	1.98	9.0	19.1	1/4	10	3/8
C	SDP055-T1400-R4Q	1465624	1400	1/4	1.0-5.5	8.8-48.6	1.0-5.5	8.9-48.6	1.00	2.20	9.0	19.1	1/4	10	3/8
C	SDP075-T1050-R4Q	1465614	1050	1/4	0.6-7.5	5.3-66.3	2.5-7.5	22.1-66.3	1.00	2.20	9.0	19.1	1/4	10	3/8
C	SDP100-T780-R4Q	1465604	780	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	1.00	2.20	9.0	19.1	1/4	10	3/8
C	SDP100-T490-R4Q	1465594	490	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	1.00	2.20	9.0	19.1	1/4	10	3/8
C	SDP100-T300-R4Q	1465584	300	1/4	0.6-10	5.3-88.5	3.5-10	31.0-88.5	1.00	2.20	9.0	19.1	1/4	10	3/8
D	SDT023-T3500-R4Q	205 147 635 4	3500	1/4	1.0-2.3	8.9-20.3	1.0-2.3	8.9-20.3	1.10	2.42	9.0	19.1	1/4	10	3/8
D	SDT035-T2200-R4Q	205 147 636 4	2200	1/4	1.0-3.5	8.9-31	1.0-3.5	8.9-31.0	1.10	2.42	9.0	19.1	1/4	10	3/8
D	SDT055-T1470-R4Q	205 147 637 4	1470	1/4	2.0-5.5	17.7-48.7	2.0-5.5	17.7-48.7	1.10	2.42	9.0	19.1	1/4	10	3/8
D	SDT075-T1100-R4Q	205 147 638 4	1100	1/4	2.5-7.5	22.1-66.4	2.5-7.5	22.1-66.4	1.10	2.42	9.0	19.1	1/4	10	3/8
D	SDT100-T820-R4Q	205 147 639 4	820	1/4	3.5-10	31.0-88.5	3.5-10	31.0-88.5	1.10	2.42	9.0	19.1	1/4	10	3/8
D	SDT100-T510-R4Q	205 147 644 4	510	1/4	3.5-10	31.0-88.5	3.5-10	31.0-88.5	1.10	2.42	9.0	19.1	1/4	10	3/8
D	SDT100-T320-R4Q	205 147 641 4	320	1/4	3.5-10	31.0-88.5	3.5-10	31.0-88.5	1.10	2.42	9.0	19.1	1/4	10	3/8

PUSH START, TOP AIR INLET

E	SCPT024-A2300-R4Q	1458994	2300	1/4	0.5-2.4	4.4-21.2	0.5-1.8	4.4-15.9	0.86	1.89	6.5	13.8	1/8	6	1/4
E	SCPT022-A1600-R4Q	1458984	1600	1/4	0.5-2.2	4.4-19.4	0.8-2.2	7.1-19.4	0.86	1.89	6.5	13.8	1/8	6	1/4
E	SCPT044-A1100-R4Q	1458974	1100	1/4	0.4-4.4	3.5-38.9	1.3-4.4	11.5-38.9	0.86	1.89	6.5	13.8	1/8	6	1/4



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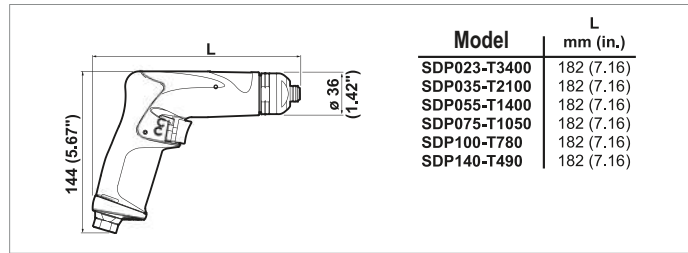


Screwdrivers - Direct drive Pistol grip

1 to 14 Nm (8.9 to 124 in.lb) - 490 to 3400 rpm



A



Model	L mm (in.)
SDP023-T3400	182 (7.16)
SDP035-T2100	182 (7.16)
SDP055-T1400	182 (7.16)
SDP075-T1050	182 (7.16)
SDP100-T780	182 (7.16)
SDP140-T490	182 (7.16)

ACCESSORIES
see page 111

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
					rpm	in.	Nm	in.lb	kg	lb.		l/s	cfm
A	SDP023-T3400-D4Q	1465714	3400	1/4	1.0-2.3	8.9-20.3	0.8	1.76	9.0	19.1	1/4	10	3/8
A	SDP035-T2100-D4Q	1465704	2100	1/4	1.0-3.5	8.9-31.0	0.8	1.76	9.0	19.1	1/4	10	3/8
A	SDP055-T1400-D4Q	1465694	1400	1/4	1.0-5.5	8.9-48.6	0.8	1.76	9.0	19.1	1/4	10	3/8
A	SDP075-T1050-D4Q	1465684	1050	1/4	3.5-7.5	31-66.3	0.8	1.76	9.0	19.1	1/4	10	3/8
A	SDP100-T780-D4Q	1465674	780	1/4	3.5-10	31-88.5	0.8	1.76	9.0	19.1	1/4	10	3/8
A	SDP140-T490-D4Q	1465664	490	1/4	3.5-14	31-124	0.8	1.76	9.0	19.1	1/4	10	3/8

Screwdrivers - Left hand tightening - Shut off Push start Automatic reverse

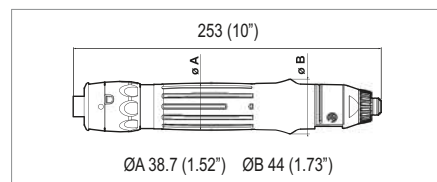
0.6 to 16 Nm (5.3 to 142 in.lb) - 320 to 1100 rpm



A

B

Tool shown with optional clutch HSG and bit adaptor

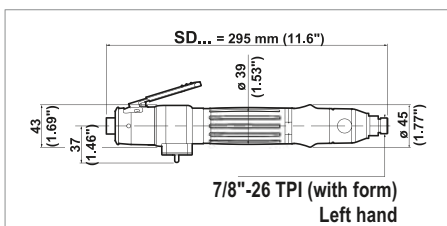
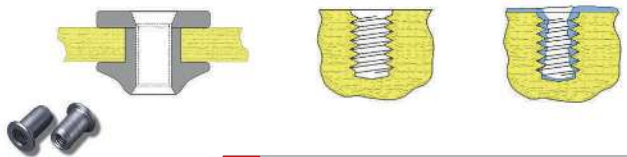


APPLICATIONS

Placement of Threaded Fasteners

Tapping in Blind Holes

Clearing Tapped Holes after Painting or Coating



ACCESSORIES
see page 110

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET		HOSE INT. Ø	
					rpm	in.	Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm

LEFT HAND TIGHTENING - SHUT OFF - PUSH START

A	SD160L-AR320-S4Q	205 147 799 4	320	1/4	0.6-16	5.3-142	3.5-10	31-88.5	0.89	1.96	8.7	18.4	1/4	10	3/8
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AUTOMATIC REVERSE

B	SD140-LA510-S4	1464584	510	See	0.6-14	5.3-124	-	-	1.0	2.2	8.7	18.4	1/4	10	3/8
B	SD075-LA1100-S4											18.4	1/4	10	3/8



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Screwdrivers - High torque & Torque Controlled Shut off

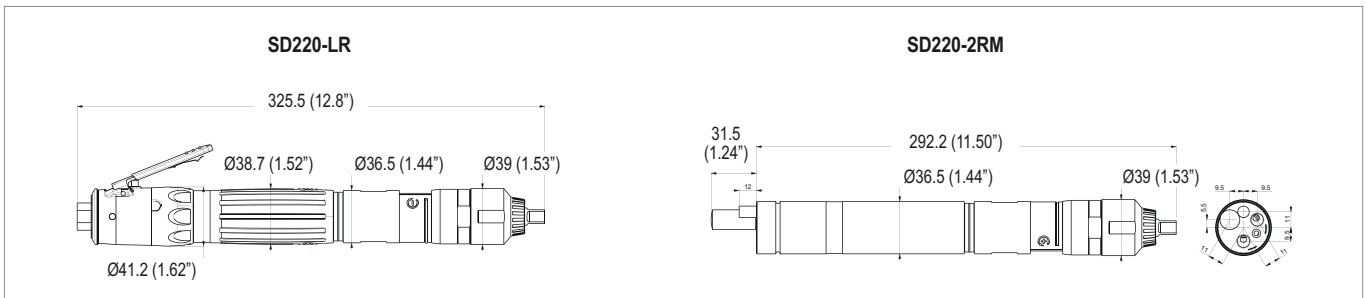
9 to 22 Nm (27 to 195 in.lb) - 320 rpm



A



B



 **ACCESSORIES**
 see page 110 and 113

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT DRIVE	TORQUE RANGE				WEIGHT		AIR FLOW		HOSE INT. Ø	
					HARD JOINT	SOFT JOINT		kg	lb.	l/s	cfm	mm	in.	
			rpm	in.	Nm	in.lb	Nm	in.lb						

SCREWDRIVERS - LEVER START - SHUT OFF

A	SD220-LR320-S4Q	205 147 937 4	320	1/4 Hex	9-16	27-142	9-16	27-142	1.4	3.1	8.7	18.4	10	3/8
A	SD220-LR320-S10S	205 147 979 4	320	3/8 Sq	9-22	27-198	9-19	27-168	1.4	3.1	8.7	18.4	10	3/8

AUTOMATION - REMOTE START - SHUT OFF - 2 WAY

B	SD220-2RM320-S4Q	205 147 939 4	320	1/4 Hex	9-16	27-142	9-16	27-142	1.4	3.1	8.7	18.4	10	3/8
B	SD220-2RM320-S10S	205 147 941 4	320	3/8 Sq	9-22	27-198	9-19	27-168	1.4	3.1	8.7	18.4	10	3/8

* Air inlet: SD 220-LR : 1/4" B



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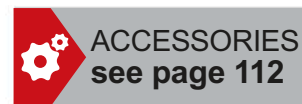
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103

Angle Head - Shut off

0.4 to 27 Nm (3.5 to 239 in.lb) - 170 to 2200 rpm



PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT DRIVE	TORQUE RANGE		FITTED SPRING		LENGTH		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
					rpm	in.	Nm	in.lb	Nm	in.lb	mm	in.	kg	lb.	l/s	cfm	in.

TWO WAY

A	SC021-L2000-S90A4S	1459154	2000	1/4 sq	0.4-2.1	3.5-18.6	0.4-0.9	3.5-7.9	275	10.8	0.84	1.85	6.5	13.8	1/8	6	1/4
A	SC021-L1400-S90A4S	1459144	1400	1/4 sq	0.4-2.1	3.5-18.6	0.6-2.1	5.3-18.6	275	10.8	0.84	1.85	6.5	13.8	1/8	6	1/4
A	SC043-L950-S90A4S	1459134	950	1/4 sq	0.4-4.3	3.5-38	0.9-4.3	7.9-38	275	10.8	0.84	1.85	6.5	13.8	1/8	6	1/4
A	SC047-L500-S90A4S	1459124	500	1/4 sq	0.4-4.7	3.5-41.5	0.9-4.7	7.9-41.5	275	10.8	0.84	1.85	6.5	13.8	1/8	6	1/4
B	SC021-L2000-S90A4H	1459074	2000	1/4 hex	0.4-2.1	3.5-18.6	0.4-0.9	3.5-7.9	275	10.8	1.12	2.47	6.5	13.8	1/8	6	1/4
B	SC021-L1400-S90A4H	1459064	1400	1/4 hex	0.4-2.1	3.5-18.6	0.6-2.1	5.3-18.6	275	10.8	1.12	2.47	6.5	13.8	1/8	6	1/4
B	SC043-L950-S90A4H	1459054	950	1/4 hex	0.4-4.3	3.5-38	0.9-4.3	7.9-38	275	10.8	1.12	2.47	6.5	13.8	1/8	6	1/4
B	SC047-L500-S90A4H	1459044	500	1/4 hex	0.4-4.7	3.5-41.5	0.9-4.7	7.9-41.5	275	10.8	1.12	2.47	6.5	13.8	1/8	6	1/4
C	SD070-LB1100-S90-A4H	1463254	1100	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.12	2.47	8.7	18.4	1/4	10	3/8
C	SD070-LB820-S90-A4H	1463244	820	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.12	2.47	8.7	18.4	1/4	10	3/8
C	SD070-LB510-S90-A4H	1463234	510	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.12	2.47	8.7	18.4	1/4	10	3/8
C	SD070-LB320-S90-A4H	1463224	320	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.12	2.47	8.7	18.4	1/4	10	3/8
C	SD070-LR1100-S90-A4H	1463294	1100	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LR510-S90-A4H	1463274	510	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LR320-S90-A4H	1463264	320	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LB1100-S90-A4S	1463374	1100	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LB820-S90-A4S	1463364	820	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LB510-S90-A4S	1463354	510	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LB320-S90-A4S	1463344	320	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LR1100-S90-A4S	1463414	1100	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LR820-S90-A4S	1463404	820	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LR510-S90-A4S	1463394	510	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LR320-S90-A4S	1463384	320	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	305	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD070-LR170-S90-A4S	205 146 705 4	170	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	306	12.0	1.11	2.45	8.7	18.4	1/4	10	3/8
C	SD072-LB1080-S90-A10S	1463504	1080	3/8 sq	2.5-7.2	22-63.7	2.5-7.2	22-63.7	353	13.9	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD095-LB800-S90-A10S	1463494	800	3/8 sq	3-9.5	26.6-84.1	3-9.5	26.6-84.1	353	13.9	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD130-LB600-S90-A10S	1463484	600	3/8 sq	4.5-12	39.8-106	4.5-12	39.8-106	353	13.9	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD209-LB370-S90-A10S	1463474	370	3/8 sq	6-19	53.1-168	6-19	53.1-168	376	14.8	1.50	3.31	8.7	18.4	1/4	10	3/8
D	SD300-LB250-S90-A10S	1463464	250	3/8 sq	11-27	97.3-239	11-27	97.3-239	376	14.8	1.50	3.31	8.7	18.4	1/4	10	3/8
D	SD072-LR1080-S90-A10S	1463554	1080	3/8 sq	2.5-7.2	22-63.7	2.5-7.2	22-63.7	376	14.8	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD095-LR800-S90-A10S	1463544	800	3/8 sq	3-9.5	26.6-84.1	3-9.5	26.6-84.1	376	14.8	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD130-LR600-S90-A10S	1463534	600	3/8 sq	4.5-12	39.8-106	4.5-12	39.8-106	376	14.8	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD209-LR370-S90-A10S	1463524	370	3/8 sq	6-19	53.1-168	6-19	53.1-168	376	14.8	1.41	3.11	8.7	18.4	1/4	10	3/8
D	SD300-LR250-S90-A10S	1463514	250	3/8 sq	11-27	97.3-239	11-27	97.3-239	376	14.8	1.50	3.31	8.7	18.4	1/4	10	3/8
D	SD300-LR180-S90-A10S												8.7	18.4	1/4	10	3/8



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SH range - Angle head - Shut off

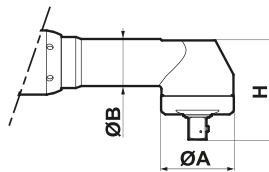
2.5 to 200 Nm (22.1 to 1770 in.lb) - 80 to 1100 rpm



Option:
Reaction bar for SH850/1200/2000



FAS3000 (optional): PLC External control
OK / NOK reporting Batch count



PRODUCTIVITY

- High speed with joint stiffness capability

QUALITY

- High accuracy with immediate shut off
- Improve your process quality with FAS3000

ERGONOMY

- Low reaction force on hard joint

DURABILITY

- Low frequency maintenance
- Quick service time



MODEL	ANGLE HEAD DIMENSIONS					
	ØA		ØB		H	
	mm	in.	mm	in.	mm	in.
SH70	20	0.79	20	0.79	36.6	1.44
SH150	22	0.87	21	0.83	35.2	1.38
SH200	27	1.06	27	1.06	45.5	1.79
SH280	27	1.06	24	0.94	41.5	1.63
SH420	40	1.57	29	1.10	56.5	2.20
SH500	40	1.57	29	1.10	56.5	2.20
SH700	40	1.57	29	1.10	56.5	2.20
SH850	51	2.00	33	1.30	69.5	2.70
SH1200	51	2.00	33	1.30	69.5	2.70
SH2000	51	2.00	33	1.30	69.5	2.70



ACCESSORIES
see page 112

PIC REF	MODEL	PART NUMBER	BOLT SIZE	FREE SPEED	SQUARE DRIVE	TORQUE RANGE		LENGTH		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
			mm	rpm	in	Nm	in.lb	mm	in.	kg	lb.	l/s	cfm	in.	mm	in.
A	SH70-LR1100-S90-A4S	205 147 628 4	M5	1100	1/4	2.5-7	22.1-61.9	334	13.1	1.3	2.9	8	17	1/4	8	5/16
B	SH150-LR580-S90-A10S	205 147 629 4	M6	560	3/8	7-15	61.9-44.2	349	13.7	1.4	3.1	10	21	1/4	10	3/8
B	SH200-LR550-S90-A10S	205 147 630 4	M6	530	3/8	10-19	88.5-168	355	14.0	1.4	3.1	10	21	1/4	10	3/8
B	SH280-LR350-S90-A10S	205 147 631 4	M8	340	3/8	14-28	124-248	350	13.8	1.4	3.1	10	21	1/4	10	3/8
B	SH280-LR80-S90-A10S	205 147 632 4	M8	80	3/8	14-28	124-248	350	13.8	1.4	3.1	10	21	1/4	10	3/8
C	SH420-LR400-S90-A10S	205 147 800 4	M10	400	3/8	20-42	177-372	436	17.2	2.0	4.4	16	34	1/4	10	3/8
C	SH500-LR330-S90-A13S	205 147 473 4	M10	330	1/2	25-50	221-442	453	17.8	2.2	4.8	16	34	1/4	10	3/8
D	SH700-LR225-S90-A13S	205 147 474 4	M10-M12	225	1/2	34-70	301-619	487	19.2	2.4	5.3	16	34	1/4	10	3/8
D	SH850-LR190-S90-A13S	205 147 475 4	M12	190	1/2	40-85	354-752	530	20.8	2.8	6.1	16	34	1/4	10	3/8
E	SH1200-LR215-S90-A13S	205 147 476 4	M12-M14	215	1/2	70-120	354-1062	590	23.2	3.5	7.6	28	59	1/2	13	1/2
E	SH2000-LR100-S90-A13S	205 147 476 4	M12-M14	215	1/2	70-120	354-1062	590	23.2	3.5	7.6	28	59	1/2	13	1/2



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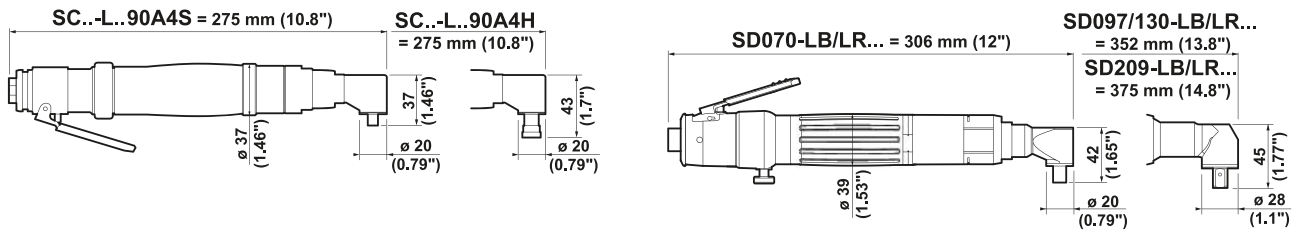
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Desoutter

105

Angle head - Non Shut off

0.4 to 19 Nm (3.5 to 168 in.lb) - 320 to 2000 rpm

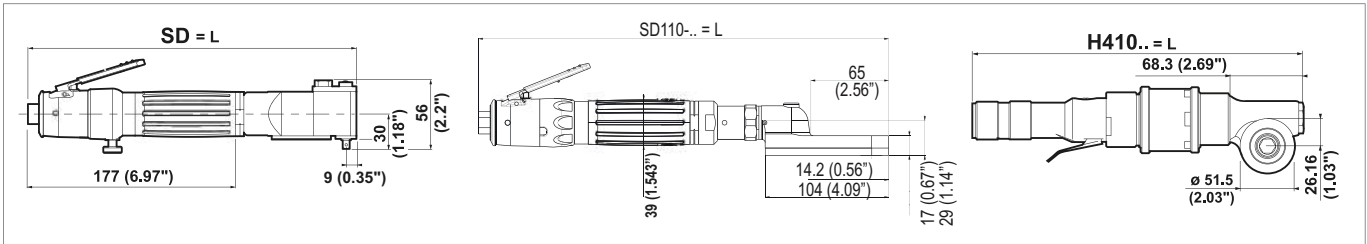


ACCESSORIES see page 112

PIC REF	MODEL	PART NUMBER	FREE SPEED rpm	OUTPUT DRIVE in.	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET		HOSE INT. Ø	
					Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm	in.	
A	SC024-L2000-R90A4S	1459194	2000	1/4 sq	0.5-2.4	4.4-21.2	0.5-1.8	4.4-15.9	0.84	1.85	6.5	13.8	1/8	6	1/4	
A	SC022-L1400-R90A4S	1459184	1400	1/4 sq	0.5-2.2	4.4-19.5	0.8-2.2	7.1-19.5	0.84	1.85	6.5	13.8	1/8	6	1/4	
A	SC044-L950-R90A4S	1459174	950	1/4 sq	0.4-4.4	3.5-38.9	1.3-4.4	11.5-38.9	0.84	1.85	6.5	13.8	1/8	6	1/4	
A	SC044-L500-R90A4S	1459164	500	1/4 sq	0.4-4.4	3.5-38.9	1-4.4	8.9-38-9	0.84	1.85	6.5	13.8	1/8	6	1/4	
B	SC024-L2000-R90A4H	1459114	2000	1/4 hex	0.5-2.4	4.4-21.2	0.5-1.8	4.4-15.9	0.84	1.85	6.5	13.8	1/8	6	1/4	
B	SC044-L950-R90A4H	1459094	950	1/4 hex	0.4-4.4	3.5-38.9	1.3-4.4	11.5-38.9	0.84	1.85	6.5	13.8	1/8	6	1/4	
B	SC044-L500-R90A4H	1459084	500	1/4 hex	0.4-4.4	3.5-38.9	1-4.4	8.9-38-9	0.84	1.85	6.5	13.8	1/8	6	1/4	
C	SD070-LB1100-R90-A4H	1463334	1100	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	1.12	2.47	8.7	18.4	1/4	10	3/8	
C	SD070-LB820-R90-A4H	1463324	820	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	1.12	2.47	8.7	18.4	1/4	10	3/8	
C	SD070-LB510-R90-A4H	1463314	510	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	1.12	2.47	8.7	18.4	1/4	10	3/8	
C	SD070-LR320-R90-A4H	1463624	320	1/4 hex	2.5-7	22-61.9	2.5-7	22-61.9	1.12	2.47	8.7	18.4	1/4	10	3/8	
C	SD070-LB1100-R90-A4S	1463454	1100	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	1.11	2.45	8.7	18.4	1/4	10	3/8	
C	SD070-LB510-R90-A4S	1463434	510	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	1.11	2.45	8.7	18.4	1/4	10	3/8	
C	SD070-LR320-R90-A4S	1463664	320	1/4 sq	2.5-7	22-61.9	2.5-7	22-61.9	1.11	2.45	8.7	18.4	1/4	10	3/8	
D	SD097-LB1080-R90-A10S	1463584	1080	3/8 sq	3-9.7	26.5-85.8	3-9.7	26.5-85.8	1.41	3.11	8.7	18.4	1/4	10	3/8	
D	SD130-LB600-R90-A10S	1463574	600	3/8 sq	4.5-12	39.8-106	4.5-12	39.8-106	1.41	3.11	8.7	18.4	1/4	10	3/8	
D	SD209-LB370-R90-A10S	1463564	370	3/8 sq	6-19	53.1-168	6-19	53.1-168	1.50	3.31	8.7	18.4	1/4	10	3/8	
D	SD097-LR1080-R90-A10S	1463724	1080	3/8 sq	3-9.7	26.5-85.8	3-9.7	26.5-85.8	1.41	3.11	8.7	18.4	1/4	10	3/8	
D	SD130-LR600-R90-A10S	1463714	600	3/8 sq	4.5-12	39.8-106	4.5-12	39.8-106	1.41	3.11	8.7	18.4	1/4	10	3/8	
D	SD209-LR370-R90-A10S										18.4	1/4	10	3/8		

Angle Head - Direct drive

1.5 to 105 Nm (13.3 to 929 in.lb) - 60 to 800 rpm



 **ACCESSORIES**
see page 112

SD - Stall Torque (Nm) Setting using Regulator Part No. 81223

MODEL	REGULATOR POSITION						
	1	2	3	4	5	6	OPEN
INLET PRESSURE - 6.3 BAR							
SD130-LB500-D90-A4S	3.2	3.5	5.3	7.0	10.0	12.5	13.0
SD096-LB800-D90-A4S	2.6	2.8	4.0	5.5	7.3	9.0	9.6
INLET PRESSURE - 4.0 BAR							
SD130-LB500-D90-A4S	2.0	2.7	3.0	4.2	6.0	8.2	9.0
SD096-LB800-D90-A4S	1.5	1.7	2.5	3.0	4.5	5.5	6.0

H410 - Stall Torque (Nm) Setting using a Typical Regulator

MODEL	REGULATOR POSITION									
	10%	20%	30%	40%	50%	60%	70%	80%	90%	OPEN
INLET PRESSURE - 6.3 BAR										
H410-N-500	3	6	9	12	15	18	21	24	27	30
H410-N-350	5	9	14	18	23	27	32	36	41	45
H410-N-150	8	16	24	32	40	48	56	64	72	80
H410-N-90	16	32	48	63	79	95	-	-	-	-
H410-N-60	20	40	60	80	-	-	-	-	-	-
INLET PRESSURE - 4.0 BAR										
H410-N-500	2	4	6	8	9	11	13	15	17	19
H410-N-350	3	6	9	11	14	17	20	23	26	28
H410-N-150	5	10	15	20	25	30	35	40	45	50
H410-N-90	10	20	30	40	50	60	70	80	90	100
H410-N-60	4	30	45	60	75	90	105	-	-	-

Maximum stall torque 105Nm

Performance will differ from the figures above depending on the regulator used

Data obtained from a lubricated air line

Torque figures are to be used as a guide only

* Must never be used without regulator with a pressure higher than 4 bars

** Must never be used without regulator with a pressure higher than 2 bars

H410-N – When using direct drive screwdrivers, it is strongly advised to equip the machines with a reaction bar to compensate against potentially high torque reaction and avoid operator injury

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT DRIVE	TORQUE RANGE		LENGTH L		WEIGHT		AIR FLOW		AIR INLET		HOSE INT. Ø	
					Nm	in.lb	mm	in.	kg	lb.	l/s	cfm	in.	mm	in.	
A	SD130-LB500-D90-A4S	1465974	500	1/4 sq	2-13	17.7-115	326	12.8	1.08	2.38	8.7	18.4	1/4	10	3/8	
A	SD096-LB800-D90-A4S	1465984	800	1/4 sq	1.5-9.6	13.3-85	326	12.8	1.08	2.38	8.7	18.4	1/4	10	1/4	
B	SD110-LX450	205 148 131 4	450	0.445 hex	1.5-11.8	13.3-104	346	13.6	1.34	2.95	8.5	18.0	1/4	10	1/4	
C	H410-N-500	1302374	500	0.525 hex	3-30	26.6-265	319	12.6	1.70	3.74	17.9	37.9	3/8	12	1/2	
C	H410-N-350	1302454	350	0.525 hex	4.5-45	39.8-398	319	12.6	1.70	3.74	17.9	37.9	3/8	12	1/2	
C	H410-N-150	1302534	150	0.525 hex	8-80	70.8-708	358	14.1	2.00	4.41	17.9	37.9	3/8	12	1/2	
C	H410-N-90*	1302614	90	0.525 hex	10-105	88.5-929	358	14.1	2.00	4.41	13.2	27.9	3/8	12	1/2	
C	H410-N-60**										3.2	27.9	3/8	12	1/2	



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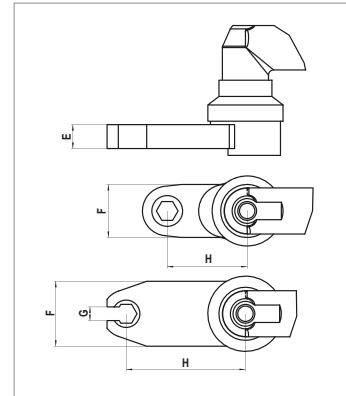


Crowfoot and Tube nut tools - Angle head


16 to 41 Nm (142 to 363 in.lb) - 330 to 430 rpm



MODEL	ACROSS FLATS		E		F		G		H	
	mm	mm	mm	in.	mm	in.	mm	in.	mm	in.
SH330-LB430-CE13-CC53	13	19	0.75	32	1.26	N/A			52.8	2.07
SH410-LB400-CE17-CC68	17	19	0.75	39	1.54	N/A			67.6	2.66
SH330-LB330-OE11-CC53	11	18	0.71	40	1.57	10.4	0.41		52.9	2.08
SH330-LB330-OE11-CC75	11	18	0.71	40	1.57	10.4	0.41		75.3	2.96
SH330-LB330-OE13-CC53	13	18	0.71	40	1.57	10.4	0.41		52.9	2.08
SH330-LB330-OE13-CC75	13	18	0.71	40	1.57	10.4	0.41		75.3	2.96



- * Up to 14mm sockets possible as an option
- * Possibility to have extension drive sockets
- * Contact your local Desoutter sales engineer for all other requests

 **ACCESSORIES**
see page 112

PIC REF	MODEL	PART NUMBER	FREE SPEED	ACROSS FLATS	TORQUE RANGE		LENGTH		WEIGHT		AIR FLOW		AIR INLET	HOSE INT. Ø	
					Nm	in.lb	mm	in.	kg	lb.	l/s	cfm	in.	mm	in.

OFFSET CROWFOOT TOOLS - SHUT OFF

A	SH330-LB430-CE13-CC53	205 147 815 4	430	13	16-33	142-212	508	20.0	2.6	5.7	18	38.1	1/4	10	3/8
A	SH410-LB400-CE17-CC68	205 147 817 4	400	17	18-41	159-363	600	23.6	3.9	8.6	28	59.3	1/2	10	3/8

OFFSET TUBE NUT TOOLS - SHUT OFF

B	SH330-LB330-OE11-CC53	205 147 818 4	330	11	16.5-33	146-292	498.3	19.6	2.7	5.9	18	38.1	1/4	10	3/8
B	SH330-LB330-OE11-CC75	205 147 819 4	330	11	16.5-33	146-292	498.3	19.6	2.7	5.9	18	38.1	1/4	10	3/8
B	SH330-LB330-OE13-CC53	205 147 820 4	330	13	16.5-33	146-292	520.7	20.5	2.8	6.2	18	38.1	1/4	10	3/8
B	SH330-LB330-OE13-CC75											38.1	1/4	10	3/8



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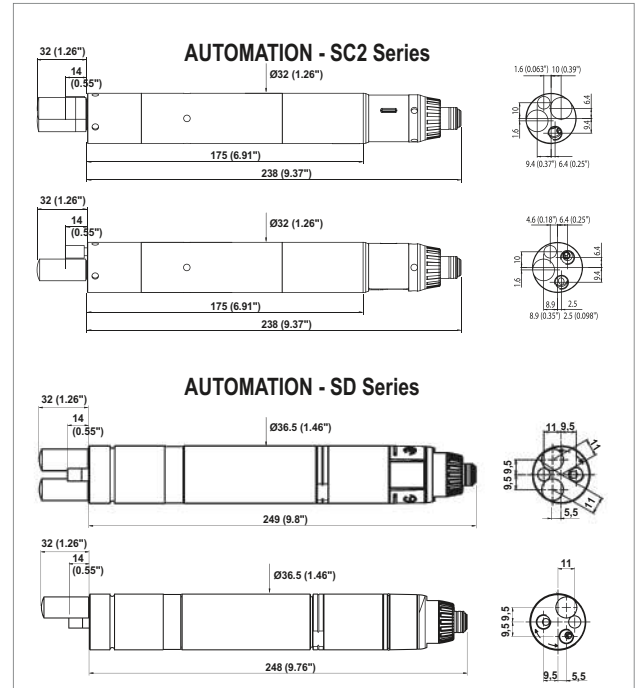
Torque Controlled - Shut Off


0.5 to 16 Nm (4.4 to 142 in.lb) - 320 to 3500 rpm



Signal

M5 Port provides signal while tool is running
The signal stops when the clutch operates



 **ACCESSORIES**
see page 113

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT HEX	TORQUE RANGE		FITTED SPRING		WEIGHT		AIR FLOW		AIR INLET		HOSE INT. Ø	
					rpm	in.	Nm	in.lb	Nm	in.lb	kg	lb.	l/s	cfm	in.	mm

AUTOMATION - PUSH START - SHUT OFF - 1 WAY

A	SC2-025-1AM2200-S4Q	205 147 426 4	2150	1/4	0.5-2.5	4.4-22	0.5-2.5	4.4-22.1	0.64	1.41	7	14.8	1/8	6	1/4
A	SC2-035-1AM1500-S4Q	205 147 425 4	1450	1/4	0.5-3.5	4.4-30.8	1.7-3.5	15-30.9	0.64	1.41	7	14.8	1/8	6	1/4
A	SC2-045-1AM1000-S4Q	205 147 424 4	1000	1/4	0.5-4.5	4.4-39.6	1.7-4.5	15-39.8	0.64	1.41	7	14.8	1/8	6	1/4
A	SC2-055-1AM700-S4Q	205 147 423 4	670	1/4	0.5-5.5	4.4-48.4	3-5.5	26.5-48.6	0.64	1.41	7	14.8	1/8	6	1/4
A	SC2-065-1AM500-S4Q	205 147 422 4	470	1/4	0.5-6.5	4.4-57.2	3-6.5	26.5-57.5	0.64	1.41	7	14.8	1/8	6	1/4

AUTOMATION - REMOTE START - SHUT OFF - 2 WAY

B	SC2-025-2RM2200-S4Q	205 147 440 4	2150	1/4	0.5-2.5	4.4-22	0.5-2.5	4.4-22.1	0.64	1.41	7	14.8	1/8	6	1/4
B	SC2-035-2RM1500-S4Q	205 147 439 4	1450	1/4	0.5-3.5	4.4-30.8	1.7-3.5	15-30.9	0.64	1.41	7	14.8	1/8	6	1/4
B	SC2-045-2RM1000-S4Q	205 147 438 4	1000	1/4	0.5-4.5	4.4-39.6	1.7-4.5	15-39.8	0.64	1.41	7	14.8	1/8	6	1/4
B	SC2-055-2RM700-S4Q	205 147 437 4	670	1/4	0.5-5.5	4.4-48.4	3-5.5	26.5-48.6	0.64	1.41	7	14.8	1/8	6	1/4
B	SC2-065-2RM500-S4Q	205 147 436 4	470	1/4	0.5-6.5	4.4-57.2	3-6.5	26.5-57.5	0.64	1.41	7	14.8	1/8	6	1/4

AUTOMATION - PUSH START - SHUT OFF - 1 WAY

C	SD035-1AM2200-S4Q	1464244	2200	1/4	1.0-3.5	8.8-31	1.0-3.5	8.8-30.9	0.92	2.03	8.7	18.4	1/8	10	3/8
C	SD055-1AM1470-S4Q	1464234	1470	1/4	2.0-5.5	18-48.7	2.0-5.5	18-48.7	0.92	2.03	8.7	18.4	1/8	10	3/8
C	SD075-1AM1100-S4Q	1464224	1100	1/4	2.5-7.5	22-66.4	2.5-7.5	22-66.4	0.92	2.03	8.7	18.4	1/8	10	3/8
C	SD100-1AM820-S4Q	1464214	820	1/4	3.5-10	31-88.5	3.5-10	31-88.5	0.92	2.03	8.7	18.4	1/8	10	3/8
C	SD140-1AM510-S4Q	1464284	510	1/4	3.5-14	31-124	3.5-10	31-88.5	0.92	2.03	8.7	18.4	1/8	10	3/8
C	SD160-1AM320-S4Q	1464194	320	1/4	3.5-16	31-142	3.5-10	31-88.5	0.92	2.03	8.7	18.4	1/8	10	3/8

AUTOMATION - REMOTE START - SHUT OFF - 2 WAY

D	SD023-2RM3500-S4Q	1464324	3500	1/4	1.0-2.3	8.8-20.4	1.0-2.3	8.8-20.4	0.92	2.03	8.7	18.4	1/8	10	3/8
D	SD035-2RM2200-S4Q	1464314	2200	1/4	1.0-3.5	8.8-31	1.0-3.5	8.8-30.9	0.92	2.03	8.7	18.4	1/8	10	3/8
D	SD055-2RM1470-S4Q	1464304	1470	1/4	2.0-5.5	18-48.7	2.0-5.5	18-48.7	0.92	2.03	8.7	18.4	1/8	10	3/8
D	SD075-2RM1100-S4Q	1464294	1100	1/4	2.5-7.5	22-66.4	2.5-7.5	22-66.4	0.92	2.03	8.7	18.4	1/8	10	3/8
D	SD100-2RM820-S4Q	1464284	820	1/4	3.5-10	31-88.5	3.5-10	31-88.5	0.92	2.03	8.7	18.4	1/8	10	3/8
D	SD140-2RM510-S4Q	1464274	510	1/4	3.5-14	31-124	3.5-10	31-88.5	0.92	2.03	8.7	18.4	1/8	10	3/8
D	SD160-2RM320-S4Q	1464194	320	1/4	3.5-16	31-142	3.5-10	31-88.5	0.92	2.03	8.7	18.4	1/8	10	3/8



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Accessories



STRAIGHT - PUSH START & LEVER START

ACCESSORIES INCLUDED

ITEM	2A89	SB	SC2	SD
• Suspension bail(s)	280903	443703	205 049 537 3	467003
• Suspension bail internal			205 051 289 3	
• Exhaust hose	280913	443723	205 049 584 3	467073
• Clutch adjustment keys	292583	446583	205 050 785 3	29932
1 Short lever (lever start model)			205 052 020 3	
2 Rings identification			205 049 590 3	
3 Side handle assembly				467033

OPTIONAL ACCESSORIES

ITEM	2A89	SB	SC2	SD
3 Side handle assembly			205 052 175 3	
• Double-ended bit holder			205 052 883 3	465523

Balancers & Tool Holster

4 Spring suspension balancer	52542	50522	50522	52862
5 Hose reel balancer	52552	50552	50552	50562
6 Reaction free self-lock balancer			54422	54432
7 Tool holster DTH-42	107892	107892	107892	107892

Bench Stands (for more information, see pages 148-161)

8 D53-25 Linear arm (tool clamp included)		615 810 701 0	615 810 701 0	615 810 701 0
8 D53-25X Linear arm (tool clamp included)		615 810 703 0	615 810 703 0	615 810 703 0
9 D53-25S Folder arm (tool clamp included)		615 810 708 0	615 810 708 0	615 810 708 0
10 D57 Balancing arm		408903	408903	408903
• Tool clamp		615 396 614 0	615 396 614 0	615 396 614 0
10 D57X Balancing arm		408913	408913	408913
• Tool clamp		615 396 614 0	615 396 614 0	615 396 614 0
11 D58 Balancing arm		408923	408923	408923
• Tool clamp		615 396 614 0	615 396 614 0	615 396 614 0
12 TRA12 Telescopic reaction arm			(see page 156)	
12 TRA25 Telescopic reaction arm			(see page 156)	

Vacuum Pick Up - Order Pick Up kit, Finder Sleeve & Vacuum Source

13 Vacuum pick up kit (spring only for 2A89)	280443	108892		108892
14 Finder sleeve blank - plastic		464093		464093
• Finder sleeve blank - steel	88992	464103		464103
15 Vacuum source AV201 for use with filter/regulator unit				112063

Miscellaneous

16 Offset exhaust				205 047 623 3
• Clutch case 7/8" LH thread 320-1470 rpm				205 047 478 3
• Clutch case 7/8" LH thread 2200-3500 rpm				205 047 479 3
• Clutch case without thrust bump, M20x1.0LH thread 320-1470 rpm				465463
• Clutch case without thrust bump, M20x1.0LH thread 2200-3500 rpm				465443

PISTOL GRIP & HLT

ACCESSORIES INCLUDED

	SCBP	SBP	SCP SCPT	SDP SDT
• Suspension bail(s)	307683	307683	307683	473153
• Side handle (320 & 1470 rpm)				467033
• Clutch adjustment keys (320 - 1470 rpm)	205 047 988 3	446583	29932	29932
• Clutch adjustment keys (2200 - 3500 rpm)				467293

OPTIONAL ACCESSORIES

ITEM	SBP SCBP	SCP SCPT	SDP SDT
Balancers & Holster			
1 Spring suspension balancer	52862	52862	52862
2 Hose reel balancer	50552	50552	50562
• Hose reel balancer conversion kit	107403	107403	115193
3 Reaction free self-lock balancer	54422	54422	54432
4 Tool holster DTH-90	615 812 119 0	615 812 119 0	615 812 119 0

Bench Stands (for more information, see pages 160-161)

5 D59 Pantographic arm	408933	408933	408933
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Accessories

DIRECT DRIVE

ACCESSORIES INCLUDED

	SDP	SD	H410
• Suspension bail(s)	473153		467003
• Side handle	467033		
• Exhaust hose		467073	

OPTIONAL ACCESSORIES

ITEM	SDP	SD	H410
• Air flow regulator	81223	81223	

Balancers & Holster

1	Spring suspension balancer	52862	50532	50542
2	Hose reel balancer	50562	50562	
3	Reaction free self-lock balancer	54432	54432	54442
4	Tool holster DTH-42	107892		
5	Tool holster DTH-90		615 812 119 0	

Suspension Shackle

6	Suspension shackle		70082	615 571 050 0
	• Swivel suspension shackle			615 396 229 0

Bench Stands (for more information, see pages 160-161)

7	D59 Pantographic arm	408933		
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Miscellaneous

8	Side handle	467033		
	• Offset exhaust		205 047 623 3	
	• Square drive adaptor 3/8" Square drive, 48mm (1.89") long			14422
	• Square drive adaptor 1/2" Square drive, 46mm (1.81") long			14442
	• Square drive adaptor 1/2" Square drive, 76mm (2.99") long			14482
	• Exhaust collector			72163

AUTO REVERSE

ACCESSORIES INCLUDED

	SD
• Suspension bail(s)	467003
• Side handle	467033
• Clutch adjustment keys	29932

OPTIONAL ACCESSORIES

ITEM	SD
------	----

Placement of Threaded Inserts

1	M3 x 0.5 Nose kit	76552
1	M4 x 0.7 Nose kit	76562
1	M5 x 0.8 Nose kit	76572
1	M6 x 1.0 Nose kit	76582
1	M8 x 1.25 Nose kit	76592

Blind Hole Tapping/ Cleaning - 3 parts Required

	• Bit adaptor*	465513
2	Thread adaptor	96743
3	Chuck capacity 8mm (5/16")	205 053 013 3

Balancers & Tool Holster

4	Spring suspension balancer	50532
5	Reaction free self-lock balancer	54432
6	Tool holster DTH-42	107892

Bench Stands (for more information, see pages 160-161)

7	D57 Balancing arm	408903
	• Tool clamp	615 396 614 0
7	D57X Balancing arm	408913
	• Tool clamp	615 396 614 0
8	D58 Balancing arm	408923
	• Tool clamp	615 396 614 0
9	TRA25 Telescopic reaction arm	(see page 156)

* To order more clutch cover PN 465453 + washer PN 467113



Accessories



ANGLE HEAD

ACCESSORIES INCLUDED

	SC	SD	SH
• Suspension bail(s)	39433/280893	467003	
• Exhaust hose	396553	467073	
• Adjustment keys	29932	29932	205 050 785 3
• Air hose nipple			205 051 239 3

OPTIONAL ACCESSORIES

ITEM	2D4872	SC	SD	SH
• Exhaust hose for SH70/150/200/280/420/500/700/850				459813
• Exhaust hose for SH1200/2000				205 050 181 3

Balancers & Holster

1 Spring suspension balancer	50532	52862	50532	
1 Spring suspension balancer for SH70/150/200/280				52862
2 Spring suspension balancer for SH420 to SH2000				50052
3 Hose reel balancer	50562	50552	50562	
3 Hose reel balancer for SH70/150/200/280				50562
4 Reaction free self-lock balancer	54432	54422	54432	
4 Reaction free self-lock balancer for SH70/150/200/280				54432

Suspension Shackle

• Suspension shackle	95842	70082		
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Suspension bails

5 Suspension bail for SH70/150/200/280				205 051 632 3
5 Suspension bail for SH420/500/700/850				205 051 113 3
5 Suspension bail for SH1200/2000				615 396 562 0

Swiveling bails

6 Swiveling bail for SH420/500/750/850				205 051 115 3
6 Swiveling bail for SH1200/2000				205 051 232 3

Bench Stands (for more information, see pages 148-155)

7 D53-25 Linear arm (tool clamp included)	615 810 701 0	615 810 701 0	615 810 701 0	615 810 704 0
7 D53-25X Linear arm, extended reach	615 810 703 0	615 810 703 0	615 810 703 0	
8 D53-25S Folder arm (tool clamp included)	615 810 707 0	615 810 707 0	615 810 707 0	615 810 709 0

Bench Stands (for more information, see pages 160-161)

9 D57 Balancing arm	408903	408903	408903	
• Tool clamp	615 396 614 0	615 396 614 0	615 396 614 0	
9 D57X Balancing arm	408913	408913	408913	
• Tool clamp	615 396 614 0	615 396 614 0	615 396 614 0	
10 D58 Balancing arm	408923	408923	408923	
• Tool clamp	615 396 614 0	615 396 614 0	615 396 614 0	
11 TRA12 Telescopic reaction arm		(see page 156)		
11 TRA25 Telescopic reaction arm		(see page 156)		

Miscellaneous

• Offset exhaust			205 047 623 3	
• Bench mounted swing arm	66542	66542	66542	66542
12 Protective cover for SH70/150/200/280				205 011 426 2
12 Protective cover for SH420/500				205 050 182 3
12 Protective cover for SH700/850				205 050 235 3
12 Protective cover for SH1200/2000				205 050 252 3
13 Complete reaction bar kit for SH850/1200/2000				205 051 121 3
14 Reporting kit for SH70 (for connexion with FAS)				205 011 424 2
14 Reporting kit for SH150/200/280 (for connexion with FAS)				205 011 425 2
14 Reporting kit for SH420/500/700/850 (for connexion with FAS)				205 050 175 3
14 Reporting kit for SH1200/2000 (for connexion with FAS)				205 050 176 3

OPEN ENDED WRENCHES

ACCESSORIES INCLUDED

	SD
• Suspension bail(s)	467003
• Exhaust hose	467073
• Clutch adjustment keys	29932

OPTIONAL ACCESSORIES

ITEM	SD
------	----

Balancers

1 Spring suspension balancer	50542
2 Hose reel balancer	50562
3 Reaction free self-lock balancer	54442

Suspension Shackle

4 Suspension shackle	70082
----------------------	-------

Bench Stands (for more information, see pages 160-161)

5 D57 Balancing arm	408903
• Tool clamp	615 396 614 0
5 D57X Balancing arm	408913
• Tool clamp	615 396 614 0
6 D58 Balancing arm	408923
• Tool clamp	615 396 614 0



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205 047 623 3



Accessories

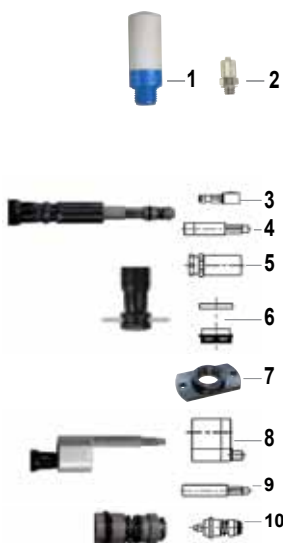
TORQUE CONTROLLED

ACCESSORIES INCLUDED

ITEM		SC2 / SD
1	Muffler	205 045 792 3
2	Straight fitting	205 044 497 3

OPTIONAL ACCESSORIES

ITEM		PART NO.
• Spring Loaded Shats and Bearings Support (including 3, 4, 5)		
3	Bit Adaptor	103782
4	Spring Loaded Shaft 25mm (1")	108342
5	Shaft Support and Nose Mount	108412
6	Nose Mounts	205 052 876 3
7	Flange M20	205 052 875 3
• Offset Head & Spring Loaded shaft (Including 8, 9)		
8	Offset Head , offset 30mm (1.18")	384993
9	Spring Loaded Shaft 25mm (1") stroke	108342
10	3/8" Square to 1/4" Hex Power Adaptor	108322



Pulse Tools - Non Shut off and Shut Off range

5 to 172 Nm (3.6 to 127 ft.lb) - 3400 to 6700 rpm



A



B



C



D

Air inlet: All models 1/4" R

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT DRIVE	TORQUE RANGE		DIMENSIONS						WEIGHT		AIR FLOW		HOSE INT. Ø	
					Nm	ft.lb	L	X	H	kg	lb	l/s	cfm	mm	in.			

NON SHUT OFF

A	PTF020-T6700-I4Q	615 172 101 0	6700	1/4 Hex	9-20	6.6-14.7	140	5.5	22	0.87	169	6.6	0.80	1.7	6.0	12.7	6	1/4
A	PTF028-T6300-I4Q	615 172 102 0	6300	1/4 Hex	16-28	11.8-20.7	140	5.5	22	0.87	169	6.6	0.80	1.7	6.7	14.1	6	1/4
A	PTF035-T6700-I4Q	615 172 103 0	6700	1/4 Hex	20-35	14.7-25.8	152	6.0	22	0.87	169	6.6	0.80	1.7	7.0	14.8	10	3/8
B	PTF024-T6700-I10S	615 172 072 0	6700	3/8 Sq	16-24	11.8-17.7	139.5	5.5	22	0.87	165.7	6.5	0.79	1.7	6.0	12.7	6	1/4
B	PTF040-T6300-I10S	615 172 074 0	6300	3/8 Sq	20-40	14.7-29.5	139.5	5.5	22	0.87	165.7	6.5	0.79	1.7	6.7	14.2	10	3/8
B	PTF056-T6700-I10S	615 172 075 0	6700	3/8 Sq	28-56	20.7-41.3	151.5	5.9	22	0.87	165.7	6.5	0.83	1.8	7.0	14.8	10	3/8
B	PTF060-T6100-I10S	615 172 076 0	6100	3/8 Sq	36-60	26.5-44.2	155	6.1	24	0.94	170.0	6.7	1.02	2.2	10.0	21.2	10	3/8
B	PTF096-T4600-I13S	615 172 077 0	4600	1/2 Sq	52-96	38.3-70.8	173	6.8	27	1.06	175.0	6.9	1.45	3.2	10.8	22.9	10	3/8
B	PTF136-T5000-I13S	615 172 078 0	5000	1/2 Sq	80-136	59-100	182.5	7.2	29.5	1.16	186.5	7.3	1.80	4.0	13.3	28.2	10	3/8
B	PTF172-T3800-I13S	615 172 079 0	3800	1/2 Sq	120-172	88-127	191.5	7.6	32	1.26	192.0	7.6	2.10	4.6	14.2	30.1	10	3/8

SHUT OFF

A	PTF012-T6200-S4Q	615 172 104 0	6200	1/4 Hex	5-12	3.6-8.8	181	7.1	22	0.87	169	6.6	1.00	2.2	6.7	14.1	6	1/4
A	PTF022-T6500-S4Q	615 172 105 0	6500	1/4 Hex	11-22	8.1-16.2	181	7.1	22	0.87	169	6.6	1.00	2.2	7.5	15.9	6	1/4
A	PTF028-T6300-S4Q	615 172 106 0	6300	1/4 Hex	19-28	14.0-20.5	193	7.6	22	0.87	169	6.6	1.00	2.2	9.2	19.4	10	3/8
C	PTF012-T6200-S10S	615 172 081 0	6200	3/8 Sq	5-12	3.7-8.8	180.5	5.5	22	0.87	164.3	6.5	0.97	2.1	6.7	14.1	6	1/4
C	PTF024-T6500-S10S	615 172 084 0	6500	3/8 Sq	11-24	8.1-17.7	180.5	5.5	22	0.87	164.3	6.5	0.97	2.1	7.5	15.9	10	3/8
C	PTF035-T6300-S10S	615 172 087 0	6300	3/8 Sq	22-35	16.2-25.8	192.5	5.9	22	0.87	164.3	6.5	1.00	2.2	9.2	19.4	10	3/8
D	PTF060-T6100-S10S	615 172 088 0	6100	3/8 Sq	30-55	22.1-40.6	189.5	6.1	24	0.94	169.0	6.7	1.10	2.4	10	21.1	10	3/8
D	PTF085-T4800-S13S	615 172 089 0	4800	1/2 Sq	50-85	36.9-62.7	208.5	6.8	27	1.06	175.0	6.9	1.60	3.5	11.3	24.0	10	3/8
D	PTF130-T4500-S13S	615 172 090 0	4500	1/2 Sq	70-120	51.6-88.5	217.5	7.2	29.5	1.16	186.5	7.3	1.85	4.1	13.3	18.2	10	3/8
D	PTF165-T3400-S13S	615 172 091 0	3400	1/2 Sq	110-155	81-114	227.5	7.6	32	1.26	192.0	7.6	2.10	4.6	14.2	30.0	10	3/8

The tool is designed for a working



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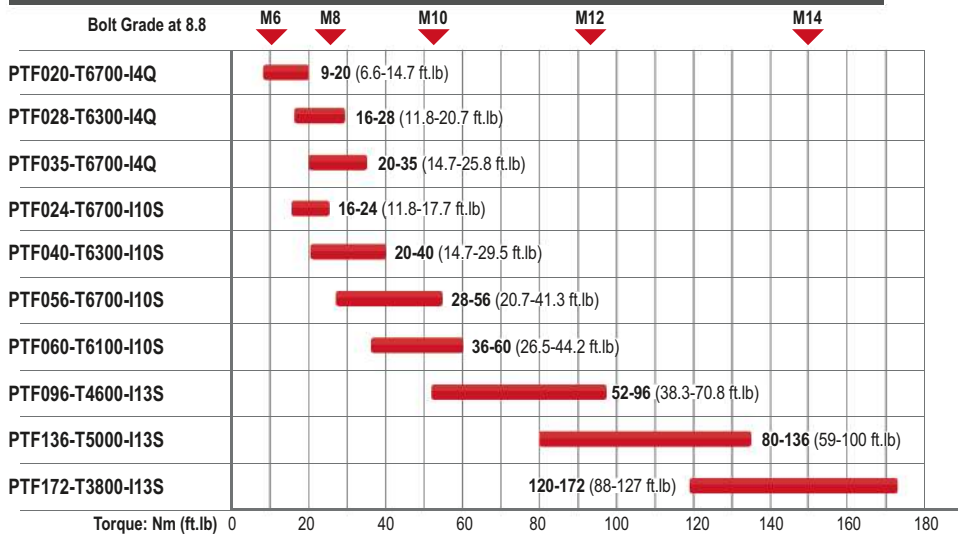
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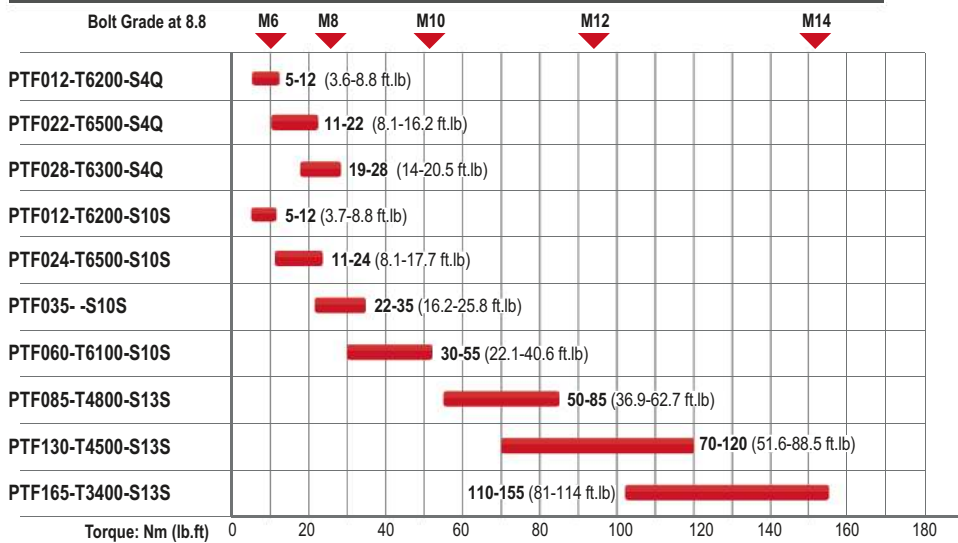
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Pulse Tools - Tool Selection

NON SHUT OFF RANGE



SHUT OFF RANGE



Accessories

ACCESSORIES INCLUDED

	PART NO.
• Air Hose nipple PTF012/024/040	541 205 445 0
• Air Hose nipple (other models)	541 205 445 2
• Suspension bail	541 205 847 4
• Hex pin wrench	-
Pulse Non Shut Off	
• Cover protection for PTF020/024/028/040.	541 206 045 6
• Cover protection for PTF060..	541 206 045 8
• Cover protection for PTF056/035.	541 206 045 7
• Cover protection for PTF096..	541 206 045 9
• Cover protection for PTF136..	541 206 046 0
• Cover protection for PTF172..	541 206 046 1

ACCESSORIES INCLUDED

	PART NO.
Pulse Shut Off	
• Cover protection for PTF012/022/024...	541 206 045 0
• Cover protection for PTF035...	541 206 045 1
• Cover protection for PTF060...	541 206 045 2
• Cover protection for PTF085...	541 206 045 3
• Cover protection for PTF130...	541 206 045 4
• Cover protection for PTF165...	541 206 045 5



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Pulse Tools - Non Shut Off and Shut Off range

5 to 450 Nm (3.7 to 332 ft.lb) - 2800 to 10000 rpm



Air Inlet: All models 1/4" BSP, except PT160/240/250/450: 3/8" BSP – NPT optional

PIC REF	MODEL	PART NUMBER	FREE SPEED	OUTPUT DRIVE	TORQUE RANGE		DIMENSIONS						WEIGHT		AIR FLOW		HOSE INT. Ø	
					Nm	ft.lb	L	X	H	kg	lb	l/s	cfm	Ø	in.			
			rpm	in.			mm	in.	mm	in.	mm	in.					Ø	in.
NON SHUT OFF																		
A	PT031-L10000-I10S	205 147 466 4	10000	3/8 Sq	20-31	15-23	221	8.7	22	0.87	-	-	0.7	1.5	8	17	8	5/16
B	PT028-T9000-I4Q	205 147 789 4	9000	1/4 Hex	17-28	13-21	150	5.9	22	0.87	175	6.9	0.8	1.8	8	17	8	5/16
C	PT031-T9000-I10S	205 147 467 4	9000	3/8 Sq	20-31	15-23	152	6.0	22	0.87	175	6.9	0.8	1.8	8	17	8	5/16
C	PT052-T7000-I10S	205 147 468 4	7000	3/8 Sq	30-52	22-38	174	6.8	23	0.90	175	6.9	1.0	2.0	9	19	10	3/8
D	PT070-T6000-I13S	205 147 469 4	6000	1/2 Sq	50-70	37-52	168	6.6	26	1.02	190	7.5	1.3	2.9	11	23	10	3/8
D	PT110-T4500-I13S	205 147 470 4	4500	1/2 Sq	65-110	48-81	178	7.0	29	1.14	198	7.8	1.6	3.5	12	25	10	3/8
D	PT160-T3500-I13S	205 147 471 4	3500	1/2 Sq	110-160	81-118	188	7.4	34	1.34	209	8.2	2.4	5.3	14	30	13	1/2
E	PT240-T2800-I19S	205 147 472 4	2800	3/4 Sq	160-240	118-177	205	8.1	37	1.46	212	8.3	3.3	7.3	15	32	13	1/2
SHUT OFF																		
F	PT010-T5500-S4Q	205 146 227 4	5500	1/4 Hex	5-10	3.7-7.4	205	8.1	21	0.80	178	7.0	0.95	2.1	6	13	8	5/16
G	PT010-L5000-S4Q	205 146 225 4	5000	1/4 Hex	5-10	3.7-7.4	212	8.3	21	0.83	-	-	0.9	1.9	6	13	8	5/16
F	PT014-T6000-S4Q	205 146 228 4	6000	1/4 Hex	8-14	5.9-10	205	8.1	21	0.83	178	7.0	1.0	2.2	6	13	8	5/16
G	PT014-L6000-S4Q	205 146 226 4	6000	1/4 Hex	8-14	5.9-10	212	8.3	21	0.83	-	-	0.9	2.0	6	13	8	5/16
H	PT025-T4500-S10S	205 147 462 4	4500	3/8 Sq	13-25	10-18	177	7.0	26	1.02	192	7.6	1.3	2.9	7	15	8	5/16
I	PT025-L4500-S10S	205 147 463 4	4500	3/8 Sq	13-25	10-18	236	9.3	25	0.98	-	-	1.2	2.5	7	15	8	5/16
H	PT035-T6000-S4Q	205 147 790 4	6000	1/4 Hex	20-36	15-26	175	6.9	26	1.02	192	7.6	1.4	3.0	8	17	8	5/16
H	PT040-T6000-S10S	205 146 229 4	6000	3/8 Sq	22-40	16-29	177	7.0	26	1.02	192	7.6	1.4	3.0	8	17	8	5/16
H	PT070-T4000-S13S	205 146 230 4	4000	1/2 Sq	32-70	24-51	192	7.6	29	1.14	200	7.9	1.8	4.0	10	21	10	3/8
H	PT125-T3500-S13S	205 146 231 4	3500	1/2 Sq	62-125	46-92	201	7.9	34	1.34	211	8.3	2.4	5.3	12	25	10	3/8
J	PT250-T4000-S19S	205 147 464 4	4000	3/4 Sq	125-250	92-185	216	8.5	37	1.46	215	8.5	3.3	7.2	20	42	13	1/2
K	PT450-T3000-S19S	205 147 465 4	3000	3/4 Sq	225-450	166-332	202	8.0	42	1.65	229	9.0	4.3	9.5	22	46	13	1/2

The tool is designed for a working



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Pulse Tools - Tool Selection

NON SHUT OFF RANGE

	Bolt Grade at 8.8					
	M5	M10	M12	M14	M16	
PT031-L10000-I10S	20-31 (15-23 ft.lb)					
PT028-T9000-I4Q	17-28 (13-21 ft.lb)					
PT031-T9000-I10S	20-31 (15-23 ft.lb)					
PT052-T7000-I10S		30-52 (22-38 ft.lb)				
PT070-T6000-I13S			50-70 (37-52 ft.lb)			
PT110-T4500-I13S				65-110 (48-81 ft.lb)		
PT160-T3500-I13S					110-160 (81-118 ft.lb)	
PT240-T2800-I19S						160-240 (118-177 ft.lb)
	Torque: Nm (ft.lb)	10 20 30 40 50 60 70 80 100 150 200 250				



SHUT OFF RANGE

	Bolt Grade at 8.8									
	M5	M6	M8	M10	M12	M14	M16	M18	M20	
PT010-T5500-S4Q	5-10 (4-7 ft.lb)									
PT010-L5000-S4Q	5-10 (4-7) ft.lb									
PT014-T6000-S4Q	8-14 (4-7) ft.lb									
PT014-L6000-S4Q	8-14 (4-7) ft.lb									
PT025-T4500-S10S			13-25 (10-18) ft.lb							
PT025-L4500-S10S			13-25 (10-18) ft.lb							
PT035-T6000-S4Q				20-36 (15-26 ft.lb)						
PT040-T6000-S10S					22-40 (16-29 ft.lb)					
PT070-T4000-S13S						32-70 (24-51 ft.lb)				
PT125-T3500-S13S							62-125 (46-92 ft.lb)			
PT250-T4000-S19S								125-250 (92-185 ft.lb)		
PT450-T3000-S19S									225-450 (166-332 ft.lb)	
	Torque: Nm (lb.ft)	5 10 20 30 40 50 60 70 100 150 200 250 300 350 400 450								

Accessories

ACCESSORIES INCLUDED

	PART NO.
• Air Hose nipple	
• Adjustment screwdriver for all models, except PT031/070/110/PT160/240	205 050 137 3

Pulse Non shut off

• Cover protection for PT031-T9000-I10S	205 051 325 3
• Cover protection for PT052-T7000-I10S	205 051 324 3
• Cover protection for PT070-T6000-I13S	205 051 328 3
• Cover protection for PT110-T4500-I13S	205 051 329 3
• Cover protection for PT160-T3500-I13S	205 051 326 3
• Cover protection for PT240-T2800-I19S	205 051 327 3

Pulse Shut off

• Cover protection for PT014-T6000-S4Q	205 051 331 3
• Cover protection for PT025-T4500-S10S	205 051 328 3
• Cover protection for PT040-T6000-S10S	205 051 328 3
• Cover protection for PT070-T4000-S13S	205 051 463 3
• Cover protection for PT125-T3500-S13S	205 051 464 3
• Cover protection for PT250-T4000-S19S	205 051 463 3
• Cover protection for PT450-T3000-S19S	205 051 463 3

OPTIONAL ACCESSORIES

	PART NO.
• Reporting kit for PT010-T/L.. / PT014-T/L.. / PT025-T/L.. / PT040-T.. / PT070-T.. / PT125-T..	205 011 427 2
• Reporting kit for PT250-T.. / PT450-T..	205 011 428 2
• Suspension bail for PT031L/010/014/025L	451463
• Suspension bail for PT010/014/031/052	451393
• Suspension bail for PT025/040/070/110/125T	459843
• Suspension bail for PT160/240/250/450T	205 050 906 3
• Exhaust hose for PT031L	452243
• Exhaust hose for PT010/014/025L	459813



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Desoutter



117

Data Analyzer

Delta 1D / Delta 6D / Delta 7D

This generation of Delta analyzer is the compact portable solution to monitor all types of production tools at just 500g. Combined with standard Desoutter DRT or DST transducers it's capable of calibrating pulse tools, electric nutrunners or torque wrenches. Divided into three models for Torque measurement only (DELTA 1D), Torque & Angle (Delta 6D) and capable of residual torque check and production strategy with DWTA wrench (Delta 7D)

MAIN FEATURES

- Display: Large color screen shows clear test results, Torque&Angle curves. Real time statistics, Tools description and Routes
- Connectivity: Ethernet and USB port for Delta QC software communication and RS232 for CVI II, CVIC II and CVI3 calibration or barcode reader
- Power: Li-Ion high capacity battery of 16 hours of autonomy or external power supply
- Transducer: Standard Desoutter connector for digital transducers. Analog CMD and GSE transducer connection through an adapter
- Barcode (Delta 7D): Embedded Barcode for automatic Pset selection or VIN traceability



Measurement Unit

Delta 1D / Delta 6D / Delta 7D



MAIN FEATURES	DELTA 1D	DELTA 6D	DELTA 7D
Transducer			
Connection to DRT4, DRT5, DST	✓	✓	✓
Connection to DWT, DWTA			✓
Connection to CMD and GSE type	✓	✓	✓
Through optional analog/digital adapter			
On board functionality			
Wrench test	✓	✓	✓
Nutrunner test	✓	✓	✓
Pulse Tool test	✓	✓	✓
Tools	1	1000	1000
Pset		1000	1000
Integrated Statistic	Min, Max Avg	Cm, Cmk (ISO, NF and CNOMO standards)	Cm, Cmk (ISO, NF and CNOMO standards) + SPC
Residual Check Strategy			✓
Production Strategy			✓
Results	1000	5000	5000
Curve	10	10	10
CVI autocalibration		✓	✓
External Barcode connectivity		✓	✓
Embedded Barcode			✓

MODEL	PART NUMBER	POWER REQUIREMENTS		DIMENSIONS						WEIGHT	
		BATTERY LIFE hours	CHARGER Volt	DEPTH		WIDTH		HEIGHT		kg	lb
Delta 1D	615 935 101 0	16	110/240	45	1.77	95	3.74	192	7.56	0.5	1.1
Delta 6D	615 935 102 0	16	110/240	45	1.77	95	3.74	192	7.56	0.5	1.1
Delta 7D	615 935 147 0	16	110/240	45	1.77	95	3.74	192	7.56	0.5	1.1

ACCESSORIES INCLUDED

	PART NO.
• Delta Battery	615 936 142 0
• Universal Power Supplier	615 936 143 0



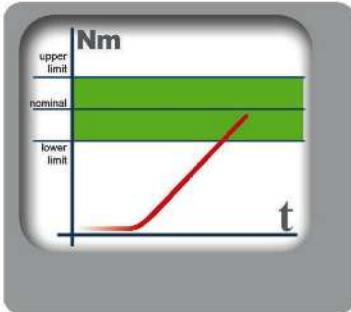
OPTIONAL ACCESSORIES

ITEM		PART NO.
1	Rubber Protection	615 936 141 0
•	CMD & ST 4000 Adapter	615 917 671 0
•	CMD 5000 Adapter	615 917 672 0
•	RS232 Adapter	615 917 670 0
•	GSE 2500 Adapter	615 917 674 0
•	GSE 8500T Adapter	615 917 675 0
•	GSE 8500T/A Adapter	615 917 676 0
2	Delta Demo Case (Empty)	615 936 140 0
•	Delta QC Licensed - 1 user	615 927 651 0
•	Delta QC Licensed - 5 user	615 927 652 0
•	Delta QC Advanced 1 user	615 927 653 0
•	Delta QC Advanced 5 user	615 927 654 0

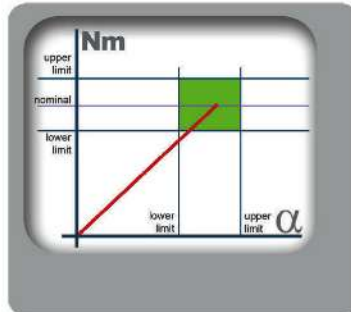
DWTA

Digital Wrench for Torque and Angle Measurement

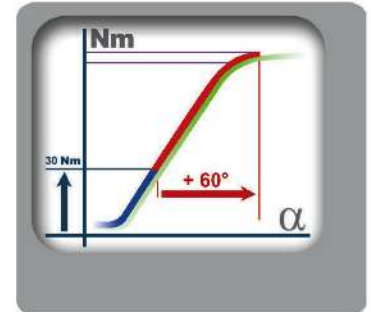
PRODUCTION AND QUALITY strategies: In combination with Delta 7D, the torque and angle wrench for residual automatic torque check and Joint analysis with Yield point detection.



Tightening within torque limits



Tightening within torque and angle limits (tightening to a window)



Tightening with torque and additional angle rotation (torque + angle)



■ DWTA

■ Non Length Dependent Transducer thanks to double bridge strain gauge. To guarantee a tightening result independent from operator hand position 1% of torque reading (from 10% to 100% of torque range)



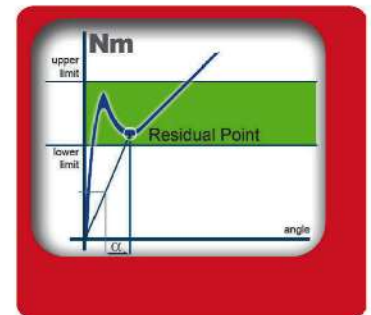
■ Delta7D



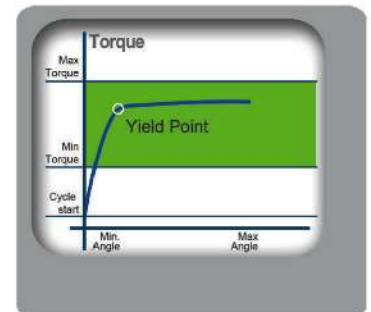
■ Military connector for standard transducer cable



■ Gyroscope for angle measurement.



Automatic Residual torque check



Joint analysis

MODEL	PART NUMBER	RANGE		ANGLE	DRIVE		INCLUDED RATCHET	LENGTH		WEIGHT	
		Nm	ft lb		mm	in.		in	mm	in.	kg
DWTA 30	615 165 760 0	3-30	2.21	✓	9x12	0.35x0.47	3/8	402	15.8	0.9	2.0
DWTA 150	615 165 761 0	15-150	11.06-110.6	✓	14x18	0.55x0.71	1/2	625	24.6	1.8	4.0
DWTA 400	615 165 762 0	40-400	29.5-295	✓	14x18	0.55x0.71	3/4	1026	40.4	2.8	6.2



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Delta Wrench

Digital Wrench for Torque & Angle Measurement

The digital wrench integrates is a unique device and flexible solution for both production and quality strategy in tightening. Delta Wrench provides high accuracy solution for torque controlled joints tightening. Delta Wrench ensures perfect tightening operator independent thanks to automatic PSet selection and double bridge transducer, also introduces a quality strategy with angle measurement and traceability for a perfect quality audit.



Non Length Dependent Transducer thanks to double bridge strain gauge. To guarantee a tightening result independent from operator hand position

1% of torque accuracy along a wide range

Standard interchangeable heads

Wrench accessories see page 126

Intelligent RFI-TAG for PSet automatic selection

USB Port for DELTA QC free software communication for programming 10 predefined PSet or to Export result in XLS report

Optional Wireless Communication

Ergonomic keyboard to recall the predefined PSet

Backlight RGB colour display for operator guidance plus acoustic buzzer

Embedded high capacity Li-Ion battery

Optional gyroscope for angle measurement

Delta Wrench



MODEL	PART NUMBER	RANGE		ANGLE	DRIVE		INCLUDED RATCHET	LENGTH		WEIGHT	
		Nm	ft lb		mm	in.		mm	in.	kg	lb
Delta Wrench 30	615 165 771 0	3-30	2.21	✗	9x12	0.35x0.47	3/8	402	15.8	0.9	2.0
Delta Wrench 150	615 165 772 0	15-150	11.06-110.6	✗	14x18	0.55x0.71	1/2	625	24.6	1.8	4.0
Delta Wrench 400	615 165 773 0	40-400	29.5-295	✗	14x18	0.55x0.71	3/4	1026	40.4	2.8	6.2
Delta Wrench 800	615 165 774 0	80-800	59-590	✗	Ø28	Ø1.1	1	1309	51.5	4.7	10.4
Delta Wrench 30-A	615 165 775 0	3-30	2.21	✓	9x12	0.35x0.47	3/8	402	15.8	0.9	2.0
Delta Wrench 150-A	615 165 776 0	15-150	11.06-110.6	✓	14x18	0.55x0.71	1/2	625	24.6	1.8	4.0
Delta Wrench 150-A Short	615 165 767 0	15-150	11.06-110.6	✓	14x18	0.55x0.71	1/2	418	16.5	1.0	2.2
Delta Wrench 400-A	615 165 777 0	40-400	29.5-295	✓	14x18	0.55x0.71	3/4	1026	40.4	2.8	6.2
Delta Wrench 800-A	615 165 778 0	80-800	59.0-590	✓	Ø 28	Ø 1.1	1	1309	51.5	4.7	10.4

All models are supplied with box including reverseable ratchet with TAG and Delta QC Free Version CD-Rom



■ Li-Ion Battery and battery charge

MODEL	PART NUMBER	HEIGHT		LENGTH		WIDTH		WEIGHT	
		mm	in	mm	in	mm	in	gr	lb
Delta Wrench Battery	615 936 150 0	-	-	110	4.33	Ø 22	Ø 8,86	80	0.18
Delta Wrench Battery Charger	615 936 151 0	60	2.36	140	5.51	80	3.15	240	0.53

DELTAQC SOFTWARE	FREE	LICENSED	ADVANCED
PSet programming	✓	✓	✓
Result viewer	✓	✓	✓
Result excel export	✓	✓	✓
Curve viewer		✓	✓
Result Database			✓

MODEL	PART NUMBER
DeltaQC Licensed 1 user	615 927 651 0
DeltaQC Licensed 5 users	615 927 652 0
DeltaQC Advanced 1 user	615 927 653 0
DeltaQC Advanced 5 users	615 927 654 0



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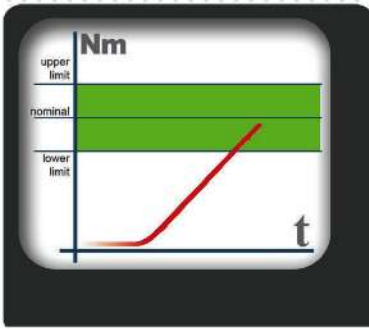
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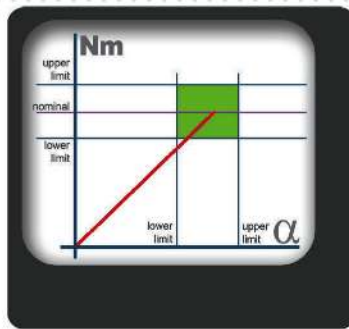
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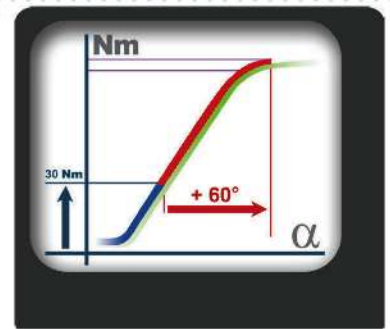
Production Strategies



Tightening within torque limits



Tightening within torque and angle limits (tightening to a window)



Tightening with torque and additional angle rotation (torque + angle)



BENEFITS

- Accuracy for critical tightenings
- Wide torque range to replace click wrenches
- Production data traceability
- Repair station fastening capability
- Difficult access joints tightening
- Re-hit detection
- Low calibration cost
- Back up tool



Extension Application

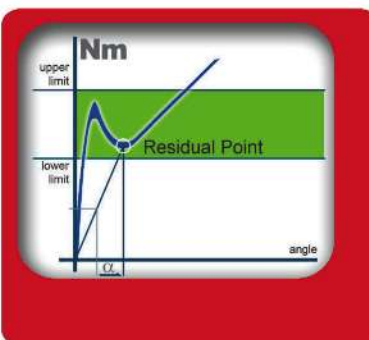
TECHNICAL SPECIFICATION

10 predefined Pset	Pset with T/A limits defined by Delta QC Software
Batch Count	Up to 99
Production Strategies	Torque/Time, Torque & Angle, Torque + Angle CW/CCW Tightenings
Quality Audit Strategy	Peak Torque, Torque plus Angle Automatic residual detection CW/CCW Tightenings
Torque Accuracy	1% of torque reading +/- 1 digit
Angle Accuracy	+/- 1%
Battery	Li-Ion Battery
Power Autonomy	up to 10 hours for stand alone, 8 hours for wireless
USB Communication	Bi-directional communication to Delta QC Software
Results	1000 + 10 curves with Delta Licensed QC
RGB Display	Red Green or Blue backlight
Buzzer	Extension Torque and Angle bending correction
Multi-units	N•m, N•cm, Kg•cm, Kg•m, Oz•in, Lbf•in, Lbf•ft
Languages	French, English, Spanish, Italian, Deutsch, Portugese
Software	Free Delta QC software to define Pset and downloads results



Quality Strategies

Perfect for joint inspection and auditing Delta Wrench detects automatically the real residual torque of the fastener.



Automatic residual point detection



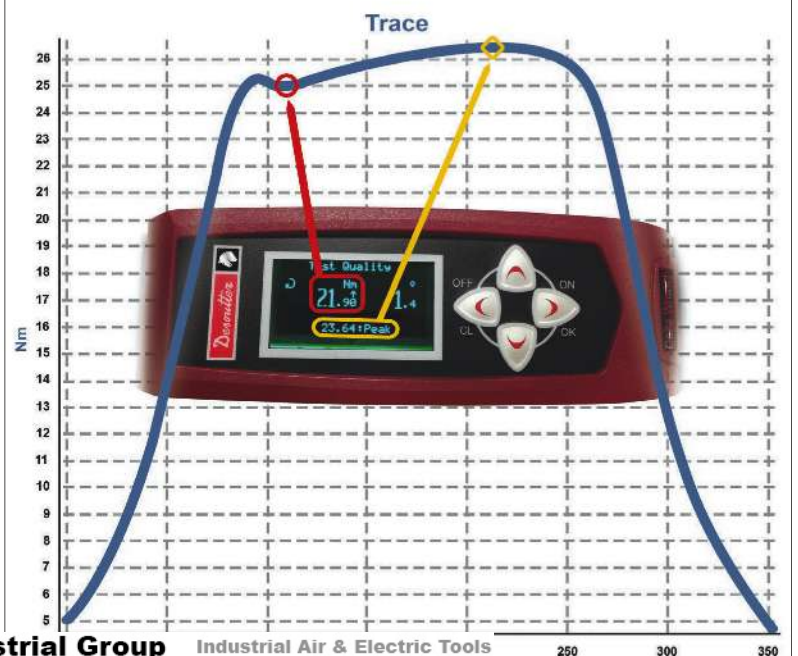
BENEFITS

- Real residual torque value without any special programming or setting from operator
- Save time no PC setting are required
- No risk to release an over loaded fastener as mean value is saved
- Residual value operator independent
- Export data for quality & statistic analysis
- Perfect for fast & accurate pulse tools setting



High resolution torque/angle automatic algorithm

Double result detection Residual + Peak Torque



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Delta Wrench WLAN

Plant Network



Customer Software Application

Access Point



Dual Band WLAN 2.4 & 5 GHz Infrastructure mode



- Remote PSet Setup & Selection
- Remote Enable/Disable Wrench
- Real Time Torque/Angle Results



Main available Command



Thanks to simple bidirectional communication protocol, DeltaWrench Wlan (TCP Client), can be easily interfaced to custom applications (TCP Server), by developing a communication bridge software.

+

BENEFITS

- Real Time communication
- OPEN Protocol or DESOUTTER Protocol (ASCII format) fully available for easy custom integration
- Dual Band Wlan Module fully configurable by DeltaQC Software

MODEL	PART NUMBER	RANGE		ANGLE	DRIVE		INCLUDED RATCHET	LENGTH		WEIGHT	
		Nm	ft lb		mm	in.		mm	in.	kg	lb
Delta Wrench 30 Wlan	615 165 781 0	3-30	2.21	✗	9x12	0.35x0.47	3/8	402	15.83	0.9	2.0
Delta Wrench 150 Wlan	615 165 782 0	15-150	11.06-110.6	✗	14x18	0.55x0.71	1/2	625	24.60	1.8	4.0
Delta Wrench 400 Wlan	615 165 783 0	40-400	29.50-295.0	✗	14x18	0.55x0.71	3/4	1026	40.40	2.8	6.2
Delta Wrench 800 Wlan	615 165 784 0	80-800	59.00-590.0	✗	Ø28	Ø1.1	1	1309	51.54	4.7	10.4
Delta Wrench 30-A Wlan	615 165 785 0	3-30	2.21	✓	9x12	0.35x0.47	3/8	402	15.83	0.9	2.0
Delta Wrench 150-A Wlan	615 165 786 0	15-150	11.06-110.6	✓	14x18	0.55x0.71	1/2	625	24.60	1.8	4.0
Delta Wrench 150-A Wlan Short	615 165 789 0	15-150	11.06-110.6	✓	14x18	0.55x0.71	1/2	418	16.46	1.0	2.2
Delta Wrench 400-A Wlan	615 165 787 0	40-400	29.50-295.0	✓	14x18	0.55x0.71	3/4	1026	40.40	2.8	6.2
Delta Wrench 800-A Wlan	615 165 788 0	80-800	59.00-590.0	✓	Ø28	Ø 1.1	1	1309	51.54	4.7	10.4

All models are supplied with box including reverseable ratchet with TAG and Delta QC Free Version CD-Rom

MODEL	PART NUMBER
Access point Wifi 802.11N - US	615 811 417 5
Access point Wifi 802.11N - Europe	615 811 419 5



MODEL	PART NUMBER
Access Point Wifi7 802.11N - C	615 811 420 5
Access Point Wifi7 802.11N - N	615 811 650 5
Access Point Power Cord UK	615 917 202 0



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E-LIT BOX



FOCUS

1. Wireless communication
2. Fast to connect
3. Safe report
4. Visual feedback



■ Standard E-LIT Box Communication



CHARACTERISTICS

- 1 Wireless communication**
 - Low consumption
 - Fast connection
 - Long range communication
 - Industrial wireless communication system (with 802-15-4 Technology)
- 2 Fast to connect**
 - Automatic free channel search
 - Easy pairing process
- 3 Safe report**
 - Memorize up to 25 OK/NOK reports if lost communication
 - Possibly to lock if memory full
- 4 Visual feedback**
 - Feedback directly on Wrench display
 - Wireless communication
 - Tightening OK / NOK



Delta Wrench ZigBee

WIRELESS SYSTEM

802-15-4 Standard



8 available outputs including:

- OK
- NOK
- Tool ready
- Tool disable
- Batch complete

4 available inputs including:

- Lock tool
- Unlock tool
- Unlock tool and reset



EASY PAIRING PROCESS



■ No PC needed to pair E-LIT Box and Delta Wrench, just fast selection from wrench display

MODEL	PART NUMBER	RANGE		ANGLE	DRIVE		INCLUDED RATCHET	LENGTH		WEIGHT	
		Nm	ft lb		mm	in.		mm	in.	kg	lb
Delta Wrench 30 ZigBee	615 165 800 0	3-30	2.21	✗	9x12	0.35x0.47	3/8	402	15.83	0.9	2.0
Delta Wrench 150 Zigbee	615 165 801 0	15-150	11.06-110.6	✗	14x18	0.55x0.71	1/2	625	24.60	1.8	4.0
Delta Wrench 400 ZigBee	615 165 802 0	40-400	29.50-295.0	✗	14x18	0.55x0.71	3/4	1026	40.40	2.8	6.2
Delta Wrench 800 ZigBee	615 165 803 0	80-800	59.00-590.0	✗	Ø28	Ø1.1	1	1309	51.54	4.7	10.4
Delta Wrench 30-A Zigbee	615 165 805 0	3-30	2.21	✓	9x12	0.35x0.47	3/8	402	15.83	0.9	2.0
Delta Wrench 150-A Zigbee	615 165 806 0	15-150	11.06-110.6	✓	14x18	0.55x0.71	1/2	625	24.60	1.8	4.0
Delta Wrench 150-A Zigbee Short	615 165 810 0	15-150	11.06-110.6	✓	14x18	0.55x0.71	1/2	418	16.46	1.0	2.2
Delta Wrench 400-A ZigBee	615 165 807 0	40-400	29.50-295.0	✓	14x18	0.55x0.71	3/4	1026	40.40	2.8	6.2
Delta Wrench 800-A ZigBee	615 165 808 0	80-800	59.00-590.0	✓	Ø28	Ø1.1	1	1309	51.54	4.7	10.4

All models are supplied with box including reverseable ratchet with TAG and Delta QC Free Version CD-Rom

ACCESSORIES FOR ELC TOOLS

- E-LIT BOX-Z
- Power supply E-LIT BOX

615 936 086 0



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Delta Wrench Accessories

End Fittings with embedded RFID TAG*



OPEN END TAG - metric	PART NO.
Drive 9x12 Open End 7 mm TAG	615 936 152 0
Drive 9x12 Open End 8 mm TAG	615 936 153 0
Drive 9x12 Open End 9 mm TAG	615 936 154 0
Drive 9x12 Open End 10 mm TAG	615 936 155 0
Drive 9x12 Open End 11 mm TAG	615 936 156 0
Drive 9x12 Open End 12 mm TAG	615 936 157 0
Drive 9x12 Open End 13 mm TAG	615 936 158 0
Drive 9x12 Open End 14 mm TAG	615 936 159 0
Drive 9x12 Open End 15 mm TAG	615 936 160 0
Drive 9x12 Open End 16 mm TAG	615 936 161 0
Drive 9x12 Open End 17 mm TAG	615 936 162 0
Drive 9x12 Open End 18 mm TAG	615 936 163 0
Drive 9x12 Open End 19 mm TAG	615 936 164 0

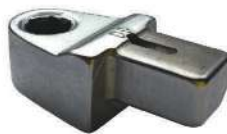
RING BOX END TAG - metric	PART NO.
Drive 9x12 Ring Box End 7 mm TAG	615 936 165 0
Drive 9x12 Ring Box End 8 mm TAG	615 936 166 0
Drive 9x12 Ring Box End 10 mm TAG	615 936 167 0
Drive 9x12 Ring Box End 11 mm TAG	615 936 168 0
Drive 9x12 Ring Box End 12 mm TAG	615 936 169 0
Drive 9x12 Ring Box End 13 mm TAG	615 936 170 0
Drive 9x12 Ring Box End 14 mm TAG	615 936 171 0
Drive 9x12 Ring Box End 15 mm TAG	615 936 172 0
Drive 9x12 Ring Box End 16 mm TAG	615 936 173 0
Drive 9x12 Ring Box End 17 mm TAG	615 936 174 0
Drive 9x12 Ring Box End 18 mm TAG	615 936 175 0
Drive 9x12 Ring Box End 19 mm TAG	615 936 176 0
Drive 9x12 Ring Box End 21 mm TAG	615 936 177 0
Drive 9x12 Ring Box End 22 mm TAG	615 936 178 0

FLARED END TAG - metric	PART NO.
Drive 9x12 Flared End 10 mm TAG	615 936 179 0
Drive 9x12 Flared End 11 mm TAG	615 936 180 0
Drive 9x12 Flared End 12 mm TAG	615 936 181 0
Drive 9x12 Flared End 13 mm TAG	615 936 182 0
Drive 9x12 Flared End 14 mm TAG	615 936 183 0
Drive 9x12 Flared End 16 mm TAG	615 936 184 0
Drive 9x12 Flared End 17 mm TAG	615 936 185 0
Drive 9x12 Flared End 18 mm TAG	615 936 186 0
Drive 9x12 Flared End 19 mm TAG	615 936 187 0
Drive 9x12 Flared End 21 mm TAG	615 936 188 0
Drive 9x12 Flared End 22 mm TAG	615 936 189 0
Drive 9x12 Flared End 24 mm TAG	615 936 190 0

OPEN END TAG - inches	PART NO.
Drive 9x12 Open End 1/4" TAG	615 936 229 0
Drive 9x12 Open End 5/16" TAG	615 936 230 0
Drive 9x12 Open End 3/8" TAG	615 936 231 0
Drive 9x12 Open End 7/16" TAG	615 936 232 0
Drive 9x12 Open End 1/2" TAG	615 936 233 0
Drive 9x12 Open End 9/16" TAG	615 936 234 0
Drive 9x12 Open End 5/8" TAG	615 936 235 0
Drive 9x12 Open End 11/16" TAG	615 936 236 0
Drive 9x12 Open End 3/4" TAG	615 936 237 0

RING BOX END TAG - inches	PART NO.
Drive 9x12 Ring Box End 1/4"	615 936 238 0
Drive 9x12 Ring Box End 5/16"	615 936 239 0
Drive 9x12 Ring Box End 3/8"	615 936 240 0
Drive 9x12 Ring Box End 7/16"	615 936 241 0
Drive 9x12 Ring Box End 1/2"	615 936 242 0
Drive 9x12 Ring Box End 9/16"	615 936 243 0
Drive 9x12 Ring Box End 5/8"	615 936 244 0
Drive 9x12 Ring Box End 11/16"	615 936 245 0
Drive 9x12 Ring Box End 3/4"	615 936 246 0
Drive 9x12 Ring Box End 13/16"	615 936 247 0
Drive 9x12 Ring Box End 7/8"	615 936 248 0

FLARED END TAG - inches	PART NO.
Drive 9x12 Flared End 3/8" TAG	615 221 001 0
Drive 9x12 Flared End 7/16" TAG	615 221 002 0
Drive 9x12 Flared End 1/2" TAG	615 221 003 0
Drive 9x12 Flared End 9/16" TAG	615 221 004 0
Drive 9x12 Flared End 5/8" TAG	615 221 005 0
Drive 9x12 Flared End 11/16" TAG	615 221 006 0
Drive 9x12 Flared End 3/4" TAG	615 221 007 0



REVERSIBLE RATCHET TAG	PART NO.
Drive 9x12 Reversible ratchet 1/4" TAG	615 936 191 0
Drive 9x12 Reversible ratchet 3/8" TAG	615 936 192 0
Drive 9x12 Reversible ratchet 1/2" TAG	615 936 193 0

BITS HOLDER TAG	PART NO.
Drive 9x12 Bits Holder 1/4" TAG	615 221 028 0
Drive 9x12 Bits Holder 5/16" TAG	615 221 029 0

BLANK END TAG	PART NO.
Drive 9x12 Blank End TAG	615 936 228 0

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Delta Wrench Accessories

End Fittings with embedded RFID TAG*



OPEN END TAG - metric	PART NO.
Drive 14x18 Open End 13 mm TAG	615 936 194 0
Drive 14x18 Open End 14 mm TAG	615 936 195 0
Drive 14x18 Open End 15 mm TAG	615 936 196 0
Drive 14x18 Open End 16 mm TAG	615 936 197 0
Drive 14x18 Open End 17 mm TAG	615 936 198 0
Drive 14x18 Open End 18 mm TAG	615 936 199 0
Drive 14x18 Open End 19 mm TAG	615 936 200 0
Drive 14x18 Open End 21 mm TAG	615 936 201 0
Drive 14x18 Open End 22 mm TAG	615 936 202 0
Drive 14x18 Open End 24 mm TAG	615 936 203 0
Drive 14x18 Open End 27 mm TAG	615 936 204 0
Drive 14x18 Open End 30 mm TAG	615 936 205 0
Drive 14x18 Open End 32 mm TAG	615 936 206 0
Drive 14x18 Open End 34 mm TAG	615 936 207 0

RING BOX END TAG - metric	PART NO.
Drive 14x18 Ring Box End 13 mm TAG	615 936 208 0
Drive 14x18 Ring Box End 14 mm TAG	615 936 209 0
Drive 14x18 Ring Box End 15 mm TAG	615 936 210 0
Drive 14x18 Ring Box End 16 mm TAG	615 936 211 0
Drive 14x18 Ring Box End 17 mm TAG	615 936 212 0
Drive 14x18 Ring Box End 18 mm TAG	615 936 213 0
Drive 14x18 Ring Box End 19 mm TAG	615 936 214 0
Drive 14x18 Ring Box End 21 mm TAG	615 936 215 0
Drive 14x18 Ring Box End 22 mm TAG	615 936 216 0
Drive 14x18 Ring Box End 24 mm TAG	615 936 217 0
Drive 14x18 Ring Box End 27 mm TAG	615 936 218 0
Drive 14x18 Ring Box End 30 mm TAG	615 936 219 0
Drive 14x18 Ring Box End 32 mm TAG	615 936 220 0
Drive 14x18 Ring Box End 34 mm TAG	615 936 221 0
Drive 14x18 Ring Box End 36 mm TAG	615 936 222 0
Drive 14x18 Ring Box End 41 mm TAG	615 936 223 0

OPEN END TAG - inches	PART NO.
Drive 14x18 Open End 7/16" TAG	615 221 008 0
Drive 14x18 Open End 1/2" TAG	615 221 009 0
Drive 14x18 Open End 9/16" TAG	615 221 010 0
Drive 14x18 Open End 5/8" TAG	615 221 011 0
Drive 14x18 Open End 11/16" TAG	615 221 012 0
Drive 14x18 Open End 3/4" TAG	615 221 013 0
Drive 14x18 Open End 13/16" TAG	615 221 014 0
Drive 14x18 Open End 7/8" TAG	615 221 015 0
Drive 14x18 Open End 15/16" TAG	615 221 016 0
Drive 14x18 Open End 1" TAG	615 221 017 0
Drive 14x18 Open End 1-1/8" TAG	615 221 018 0

RING BOX END TAG - inches	PART NO.
Drive 14x18 Box End 1/2" TAG	615 221 019 0
Drive 14x18 Box End 9/16" TAG	615 221 020 0
Drive 14x18 Box End 5/8" TAG	615 221 021 0
Drive 14x18 Box End 11/16" TAG	615 221 022 0
Drive 14x18 Box End 3/4" TAG	615 221 023 0
Drive 14x18 Box End 13/16" TAG	615 221 024 0
Drive 14x18 Box End 7/8" TAG	615 221 025 0
Drive 14x18 Box End 15/16" TAG	615 221 026 0
Drive 14x18 Box End 1" TAG	615 221 027 0



BITS HOLDER TAG	PART NO.
Drive 14x18 Bits Holder 5/16" TAG	615 221 030 0

BITS END TAG	PART NO.
Drive 14x18 Blank End TAG	615 936 226 0

REVERSIBLE RATCHET TAG	PART NO.
Drive 14x18 Reversible ratchet 1/2" TAG	615 936 224 0
Drive 14x18 Reversible ratchet 3/4" TAG	615 936 225 0
Drive Ø 28 Reversible ratchet 1" TAG	615 936 227 0

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Low Torque Analyzer



■ Embedded Transducer & Battery



TECHNICAL SPECIFICATION

Torque Transducer	Embedded
Torque Accuracy	1% of readings
Tools Testing	Torque Wrench, Nutrunner or Pulse Tools
Statistic	Min. Max, Average, Standard Deviation
Results Storage	1000 + 10 curves with DeltaQC Licenced
Multi-units	N.m, Kg.m, Kg.cm, Oz.in, Lb.in, Lb.ft, N.cm
Display	Red, Green, Blue backlight
Power Supply	Embedded Battery External power supply
Battery Autonomy	Up to 12 hours
Languages	French, English, Spanish, Italian, Deutsch, Portuguese
Software	Free Delta QC Software to export by USB result

Alpha Low Torque Analyzer



MAIN FEATURES

- Alpha D Series is designed to monitor and collect torque check results from screwdrivers, torque wrenches or click wrenches.
- Ideal to tune the tools thanks to real time statistics on color display and high capacity torque results storage.
- Traceability with included software result acquisition with time stamp, including PDF or XLS reports.
- Three models with embedded transducer to cover torque range from 0,1 to 16 Nm. All models are provided with two included joint simulators to test nutrunner according to different joint stiffness condition.



■ Backlight RGB color display with acoustic buzzer

■ Hard & Soft Joint Simulator

MODEL	PART NUMBER
DJS for Alpha_D1 Soft	615 936 120 0
DJS for Alpha_D1 Hard	615 936 121 0
DJS for Alpha_D5 Soft	615 936 122 0
DJS for Alpha_D5 Hard	615 936 123 0
DJS for Alpha_D16 Soft	615 936 124 0
DJS for Alpha_D16 Hard	615 936 125 0
Universal Power Supplier	615 936 143 0

MODEL	PART NUMBER	P. CHARGER	TORQUE RANGE		DEPTH		WIDTH		HEIGHT		WEIGHT	
			Nm	in. - lb	mm	in.	mm	in.	mm	in.	kg	lb
Alpha D1	615 935 140 0	110/240V	0.1 - 1	0.88 - 8.85	106	4.17	180	7.09	70	2.76	0.95	2.1
Alpha D5	615 935 141 0	110/240V	0.5 - 5	4.42 - 44.25	106	4.17	180	7.09	70	2.76	0.95	2.1
Alpha D16	615 935 142 0	110/240V	1.6 - 16	14.1 - 141.6	106	4.17	180	7.09	70	2.76	0.95	2.1

All models are supplied with



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Digital Rotary Transducers

Torque

TORQUE ROTARY TRANSDUCER:

The Rotary Torque Transducer DRT4 is designed to measure the torque output of any non-impact assembly tool. The transducer is suitable for use with impulse type assembly tools brushes with minimal maintenance requirements.



BENEFITS

- Automatic recognition thanks to internal memory chip storing main data values eliminating any setting mistakes and time losses.
- High reliability due to immunity from external noise thanks to digital communication.
- Communication to data analyzer not sensitive to the cable length.
- Long life durability thanks to industrial design from transducer to housing.



FEATURES

- Torque range from 0,2 to 5000 Nm (0.15 to 3685 ft.lb).
- Strain gauges transducer: - sensitivity 2mV/V - accuracy +/-0.35% of torque reading.
- Built-in smart chip memory with calibration features: - type of transducer - sensitivity nominal load - serial number.

MODEL	PART NUMBER	TORQUE RANGE		OUTPUT
		Nm	ft lb	
DRT4				
DRT 4 H 2	615 165 209 0	0.2 - 2	0.15 - 1.5	Hex ¼"
DRT 4 H 5	615 165 210 0	0.5 - 5	0.37 - 3.7	Hex ¼"
DRT 4 H 20	615 165 211 0	2 - 20	1.47 - 14.7	Hex ¼"
DRT 4 Sq 20	615 165 212 0	2 - 20	1.47 - 14.7	Sq ¼"
DRT 4 Sq 25	615 165 213 0	2.5 - 25	1.84 - 18.4	Sq ⅝"
DRT 4 Sq 75	615 165 214 0	7.5 - 75	5.53 - 55.3	Sq ⅝"
DRT 4 Sq 180	615 165 215 0	18 - 180	13.2 - 132	Sq ½"
DRT 4 Sq 500	615 165 216 0	50 - 500	36.8 - 368	Sq ¾"
DRT 4 Sq 1400	615 165 217 0	140 - 1400	103.2 - 1032	Sq 1"
DRT 4 Sq 3000	615 165 536 0	300 - 3000	221.1 - 2211	Sq 1-½"
DRT 4 Sq 5000	615 165 540 0	500 - 5000	368.5 - 3685	Sq 1-½"



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Digital Rotary Transducers & Accessories

Torque & Angle

A version DRT5 is available with an angle measurement encoder which allows with a DELTA 6D or DELTA 7D, the measurement of the angle of rotation in addition to torque.



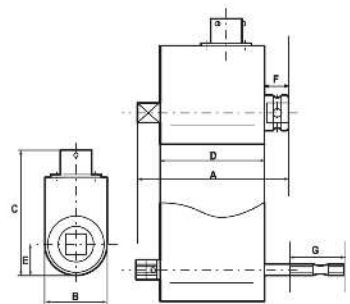
MODEL	PART NUMBER	TORQUE RANGE		OUTPUT
		Nm	ft lb	
DRT5				
DRT 5 H 2	615 165 218 0	0.2 - 2	0.15 - 1.5	Hex 1/4"
DRT 5 H 5	615 165 219 0	0.5 - 5	0.37 - 3.7	Hex 1/4"
DRT 5 H 20	615 165 220 0	2 - 20	1.47 - 14.7	Hex 1/4"
DRT 5 Sq 20	615 165 221 0	2 - 20	1.47 - 14.7	Sq 1/4"
DRT 5 Sq 25	615 165 222 0	2.5 - 25	1.84 - 18.4	Sq 3/8"
DRT 5 Sq 75	615 165 223 0	7.5 - 75	5.53 - 55.3	Sq 3/8"
DRT 5 Sq 180	615 165 224 0	18 - 180	13.2 - 132	Sq 1/2"
DRT 5 Sq 500	615 165 225 0	50 - 500	36.8 - 368	Sq 3/4"
DRT 5 Sq 1400	615 165 226 0	140 - 1400	103.2 - 1032	Sq 1"
DRT 5 Sq 5000	615 165 780 0	500 - 5000	368.5 - 3685	Sq 1-1/2"

+

FEATURES

- Torque range from 0.2 to 1400 Nm (0.15 to 1032 ft.lb).
- Angle counting system 0.35° resolution.
- Strain gauges transducer: - sensitivity 2mV/V - accuracy +/-0.35% of torque reading.
- Built-in smart chip memory with calibration features:
 - type of transducer - sensitivity nominal load - serial number.

SAME SIZE FOR TORQUE OR TORQUE & ANGLE TRANSDUCER														
OUTPUT	A		B		C		E		H		F		G	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
Hex 1/4"	116	4.56	31	1.22	71.9	2.83	56	2.2	15.5	0.61	39	1.53	25.5	1
Sq 1/4"	71.5	2.81	31	1.22	71.9	2.83	56	2.2	15.5	0.61	6	0.24		
Sq 3/8"	77	3.03	31	1.22	71.9	2.83	56	2.2	15.5	0.61	8	0.31		
Sq 1/2"	87	3.42	42	1.65	82.9	3.26	58	2.28	21	0.83	12	0.47		
Sq 3/4"	106	4.17	52	2.05	92.9	3.66	66	2.60	26	1.02	21	0.83		
Sq 1"	125	4.92	65	2.56	104.9	4.13	73	2.87	32.5	1.28	29	1.14		
Sq 1-1/2"	165	6.5	106	4.17	148.5	5.85	88	3.46	53	2.09	35.2	1.39		



TRANSDUCER CABLES

CABLE TYPE	DATA COLLECTOR TYPE	FOR TRANSDUCER	LENGTH	PART NUMBER
Digital 10 pins	All types of Delta	All digital transducers	2m (78.7") long	615 917 430 0
Digital 10 pins	All types of Delta	All digital transducers	2m (78.7") long, spiral	615 917 432 0
Digital 10 pins	All types of Delta	All digital transducers	5m (196.8") long	615 917 433 0



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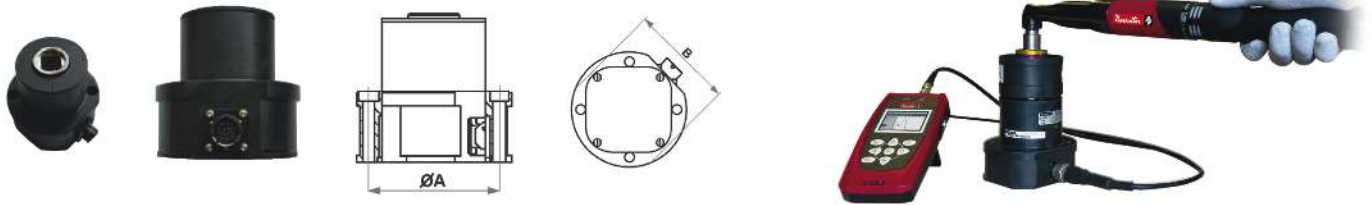
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DST - Digital Static Transducers

Designed for testing wrenches, click wrenches or for tightening tools where rotary action is not desired during measurement. In the case of a Shut-Off tool test a joint simulator as an accessory is required. Torque Accuracy: 0.35% of Torque Reading.



MODEL	PART NUMBER	TORQUE RANGE		SQUARE DRIVE	DIMENSIONS				WEIGHT	
		Nm	lb		Ø A		Ø B		kg	lb
				in	mm	in	mm	in		
DST 0.5 Nm - 13	615 165 537 0	0.05-0.5	0.04-0.4	1/2	81	3.19	91	3.58	2.2	5.1
DST 2 Nm - 13	615 165 532 0	0.2-2	0.15-1.5	1/2	81	3.19	91	3.58	2.2	5.1
DST 5 Nm - 13	615 165 533 0	0.5-5	0.37-3.7	1/2	81	3.19	91	3.58	2.3	5.1
DST 10 Nm - 20	615 165 534 0	1-10	0.74-7.4	3/4	86	3.38	93	3.66	3.1	6.8
DST 30 Nm - 20	615 165 535 0	3-30	2.21-22	3/4	89	3.50	96	3.78	3.4	7.5
DST 80 Nm - 25	615 165 538 0	8-80	5.89-59	1	108	4.25	116	4.57	5.8	12.8
DST 200 Nm - 25	615 165 539 0	20-200	14.7-147	1	108	4.25	116	4.57	5.8	12.8
DST 500 Nm - 32	615 165 541 0	50-500	36.8-368	1-1/4	133	5.24	144	5.67	11.8	26.0
DST 1000 Nm - 32	615 165 542 0	100-1000	73.7-737	1-1/4	133	5.24	144	5.67	11.9	26.2
DST 2000 Nm - 32	615 165 543 0	200-2000	147.4-1474	1-1/2	133	5.24	144	5.57	12.0	26.4

DSA - DELTA STATIC TRANSDUCERS ACCESSORIES

MODEL	PART NO.	MODEL	PART NO.	MODEL	PART NO.
3/4" M-1/4" F	615 397 205 0	1/2" M -3/8" F	615 936 111 0	HEX 1/4" M-1/4" F	615 936 118 0
3/4" M-3/8" F	615 397 206 0	1/2" F-3/8" F	615 936 112 0	HEX 1/4" M-3/8" F	615 936 119 0
1" M-1/2" F	615 397 207 0	1/2" M-1/2" F	615 936 113 0	1" F-3/4" F	615 936 126 0
1" 1/4 M-1/2" F	615 397 208 0	1" 1/4 M-3/4" F	615 936 114 0	3/4" F-1/2" F	615 936 130 0
1" 1/4 M-3/4" F	615 397 209 0	1/4" F-3/8" F	615 936 115 0	1" 1/2 F-1" 1/2 F	615 936 131 0
1/4" F-1/4" F	615 397 210 0	1" 1/4 M-1" F	615 936 116 0	1/2" F-1/2" F	615 165 573 0
3/8" F-3/8" F	615 397 211 0	1" F-1" F	615 936 117 0	3/4" F-3/4" F	615 165 576 0
1" M-3/4" F	615 936 110 0				



DJS - Digital Joint Simulator

A wide range of mechanical joint simulators are available to reproduce the joint behavior; installing the joint simulator on a transducer allows you to test a tool in the same real working conditions. Each joint simulator reproduces a specific stiffness as described in its torque/angle characteristics. For each capacity, there are two versions: one reproducing a softer joint and one reproducing a harder joint.



MODEL	PART NUMBER	TORQUE RANGE		SQUARE DRIVE		COLOUR		WEIGHT	
		Nm	lb	in	in	INSIDE	OUTSIDE	kg	lb
DJS for DST 2 Soft	615 165 529 0	2	1.5	1/2	Hex 1/4	Yellow	Yellow	0.12	0.26
DJS for DST 2 Hard	615 165 530 0	2	1.5	1/2	Hex 1/4	Yellow	Black	0.12	0.26
DJS for DST 5 Soft	615 165 531 0	5	3.7	1/2	Hex 1/4	Green	Yellow	0.12	0.26
DJS for DST 5 Hard	615 165 571 0	5	3.7	1/2	Hex 1/4	Green	Black	0.12	0.26
DJS for DST 10 Soft	615 165 574 0	10	7.4	3/4	3/8	Red	Yellow	0.64	1.41
DJS for DST 10 Hard	615 165 575 0	10	7.4	3/4	3/8	Red	Black	0.64	1.41
DJS for DST 30 Soft	615 165 577 0	30	22	3/4	3/8	Blue	Yellow	0.65	1.43
DJS for DST 30 Hard	615 165 579 0	30	22	3/4	3/8	Blue	Black	0.65	1.43
DJS for DST 80 Soft	615 165 584 0	80	59	1	1/2	Purple	Yellow	2.50	5.51
DJS for DST 80 Hard	615 165 587 0	80	59	1	1/2	Purple	Black	2.50	5.51
DJS for DST 200 Soft	615 165 588 0	200	147	1	1/2	Grey	Yellow	2.60	5.73
DJS for DST 200 Hard	615 165 589 0	200	147	1	1/2	Grey	Black	2.60	5.73
DJS for DST 500 Soft	615 165 590 0	500	369	1-1/4	3/4	Black	Yellow	5.00	11.0
DJS for DST 500 Hard	615 165 591 0	500	369	1-1/4	3/4	Black	Black	5.00	11.0
DJS for DST 1000	615 165 572 0	1000	737	1-1/4	1			10.3	22.7
DJS for DST 2000	615 165 573 0							14.1	28.8

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Calibration Bench

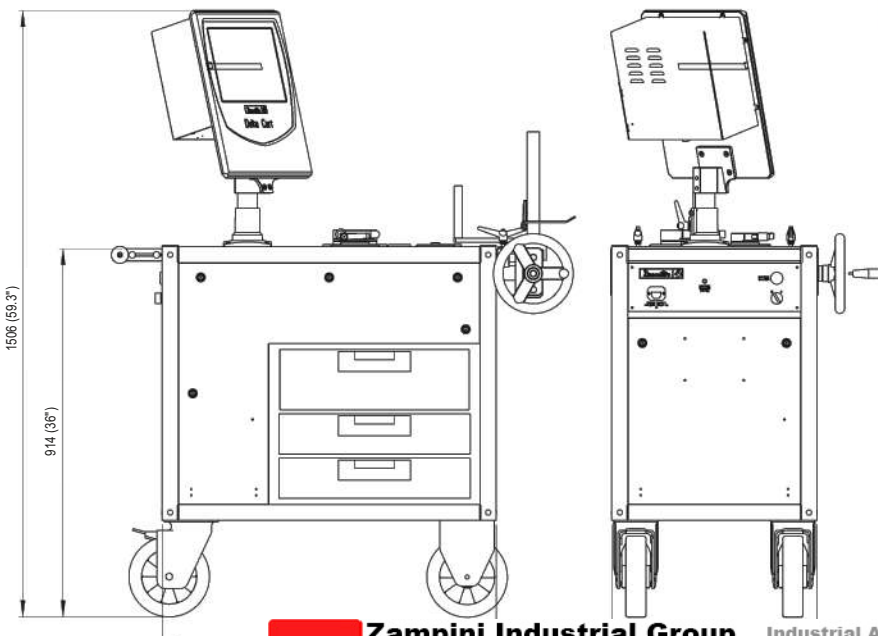
EMBEDDED TRANSDUCERS:

Assembly tools calibration process requires a flexible and versatile solution, high quality performance even in production lines. Desoutter Tools is proud to present the Delta Cart, an ergonomic and attractive solution to improve quality in assembly processes.

■ Delta Cart offers a wide torque range since it can be configured up to 4 static transducers to cover from 0.2 Nm to 1 000 Nm (0.15 to 738 ft.lb) in a very compact dimensions (510mm width), making the Delta Cart the ideal solution for tool testing in assembly production lines.



■ Embedded PC equipped with wide 12" color touch screen lets operators to start tool testing in a few seconds and few steps.



■ Delta Cart includes all adapters, reaction bars and suitable joint simulators. Optional ISO RIG for torque wrench to eliminate operator influence during calibration, reducing efforts for high torque range.

Delta Cart Tool Calibration

EMBEDDED TRANSDUCERS:

Assembly tools calibration process requires a flexible and versatile solution, high quality performance even in production lines Desoutter Tools is proud to present the Delta Cart, an ergonomic and attractive solution to improve quality in assembly processes



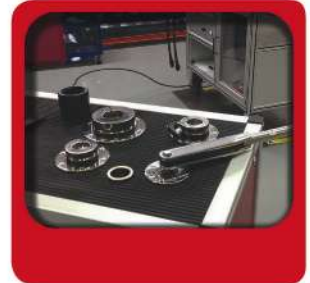
Electric and Pneumatic Nutrunner



Shut off and non shut off Pulse Tool



Torque wrench



Click wrench

The Delta Cart is able to follow your tools during the complete life span: by performing capacity test (Cm/Cmk) before tool is introduced into production, or monitoring tool performance during production assembly process by performing Statistic Process Control (SPC) test

TECHNICAL FEATURES

- Configurable torque range from 1 Nm to 1000Nm
- Torque reaction bar and joint simulator included
- External DRT communication for in-line calibration
- Angle Strategy with external DRT5

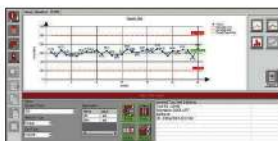


Embedded Software with local tool DB (SQL Server) containing all Tool of the line including:

■ Calibration STATUS



■ Cm/Cmk Reports



■ Next Calibration



■ X/R Charts

- PST High accuracy static transducers with locking system specially designed for pulse tool calibration
- ISO RIG System for torque wrench calibration

CLIENT - SERVER Architecture

- Ideal for >1 cart management
- All Calibration data always synchronized with unique Server database
- Fast Ethernet communication

ROUTE MANAGEMENT

- Send to Delta Cart just the Tool to be tested

SOFTWARE FEATURES

Torque Wrench, Electric or Pneumatic Nutrunner Test, Pulse Test Cm/Cmk - ISO 3534	Local Test Database up to 30000 Tests - Setting: Nominal Min Max Torque, unit of measure, Test Id, Test Description, Transducer number, Timeout setting Cm/Cmk, min, max, average, sigma
ISO 6789 - ISO 5393	Automatic test report
Statistic Control - ISO 8258 Print	X/R Charts for trend control Direct Printing from Delta Cart PC software
Export Curve	Certificate export to PDF or XLS Torque/Time or Torque/Angle with external DRT5
Barcode Configurable for each test	External USB N.m - gf.cm - Kgf.cm - kgf.m - ozf.in - lbf.in - lbf.ft
Languages	



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Delta QC Software

DELTA QC LICENSED

The Delta QC software is the common software platform for all Delta QC measurement equipment. Included features are programming, results and curve viewer ensuring production data traceability. Statistical machine capability tool or SPC are also ensured thanks to local database available in the Advanced version.



Result and Curve Viewer, Excel EXPORT and PRINTING

Licensed version for on-line device programming and online result export

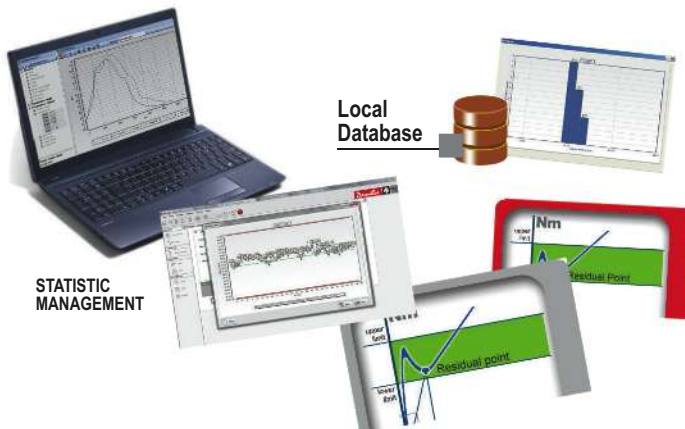


MAIN FUNCTIONS			
	FREE	LICENSED	ADVANCED
Delta D			
Pset programming	✓	✓	✓
Tool Definition	✓	✓	✓
Route Definition		✓	✓
Transducer Definition	✓	✓	✓
Pset Database		✓	✓
Tool Database		✓	✓
Route Database		✓	✓
Statistic (online only)		✓	✓
Result viewer	✓	✓	✓
Result excel export	✓	✓	✓
Curve viewer		✓	✓
Curve excel, JPEG export		✓	✓
Curve comparison		✓	✓
RESULT Database			✓
Curve Database			✓
Offline statistic			✓

MODEL	PART NUMBER
Delta QC Licensed 1 User	615 927 651 0
Delta QC Licensed 5 User	615 927 652 0
Delta QC Advanced 1 User	615 927 653 0
Delta QC Advanced 5 User	615 927 654 0

Delta QC Advanced

Advanced version provides a local result database and offline programming. All results, curves and statistics are available for review, export and reporting in both on line and off line mode. All Tools, Status and Pset are always available in the local SQL DB.



Local Database

STATISTIC MANAGEMENT

MAIN FUNCTIONS			
	FREE	LICENSED	ADVANCED
Delta Wrench			
Pset programming	✓	✓	✓
Result viewer	✓	✓	✓
Result excel export	✓	✓	✓
PSet Database		✓	✓
Curve viewer		✓	✓
Result Database			✓
Delta Cart			
Pset programming			✓
Pset Database			✓
Result viewer			✓
Result excel export			✓
Result Database			✓
Offline statistic			✓

Delta QC FreeVersion

Delta Wrench and Alpha D product range are supplied with the Delta QC software. Without any registration the Delta QC is able to program Delta Wrench, Delta D and Alpha D, download results, export to excel and print.

MAIN FUNCTIONS			
	FREE	LICENSED	ADVANCED
ALPHA D			
Result viewer	✓	✓	✓
Result excel export	✓	✓	✓
Curve viewer		✓	✓



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Specific Nutrunners and Spindles



Specific nutrunners

- Flush socket
- Crowfoot (open or close ended)
- Hold and Drive
- Crowfoot Hold and Drive
- Insulated
- 2 output shafts
- With multiplier
- Quick Change

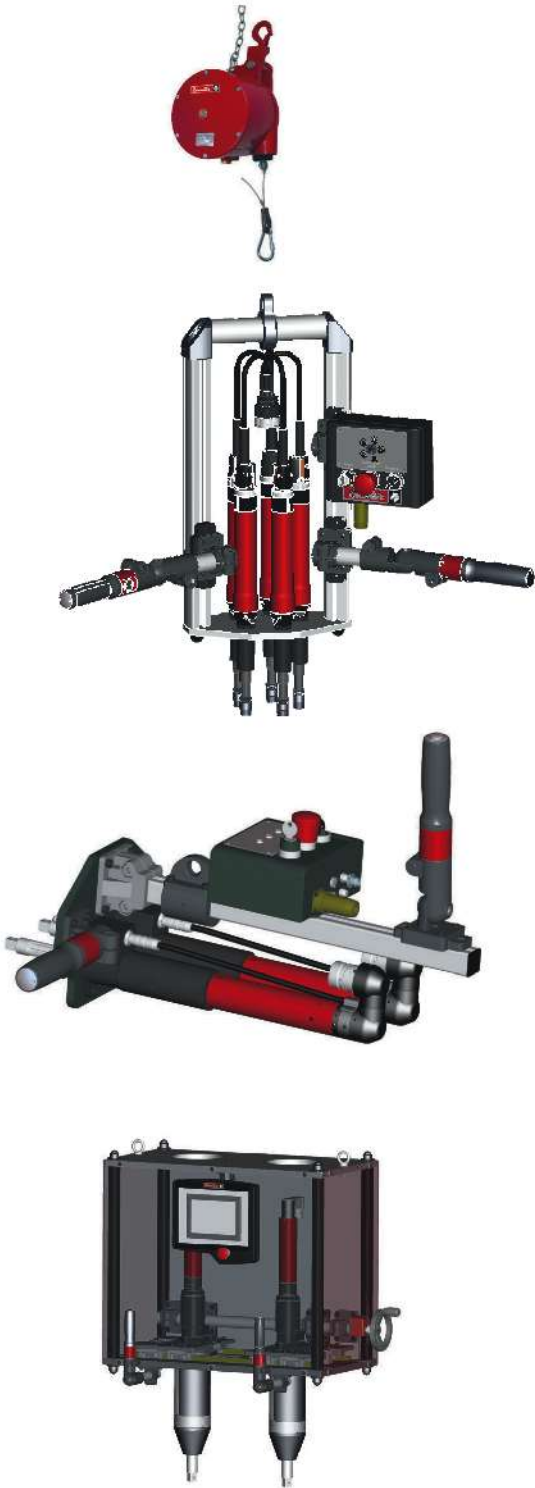
Specific spindles

- U-Shape
- Specific output shaft
- Second torque transducer

Specific reaction bars

AND MUCH MORE ON REQUEST !

Multiplus



Options

- Suspension (cable balancer or cylinder)
- Transducer holders
- Variable center distance (manual, automatic by cylinder or motorized)

PART NO.	DESCRIPTION	
615 396 875 0	Handle start horizontal	
615 396 876 0	Handle start vertical	
615 396 877 0	Handle support cpte	
615 396 878 0	Handle reverse	
615 398 135 0	2 additional buttons kit	
615 398 136 0	1 LED + 1 additional button kit	

For further information about tec



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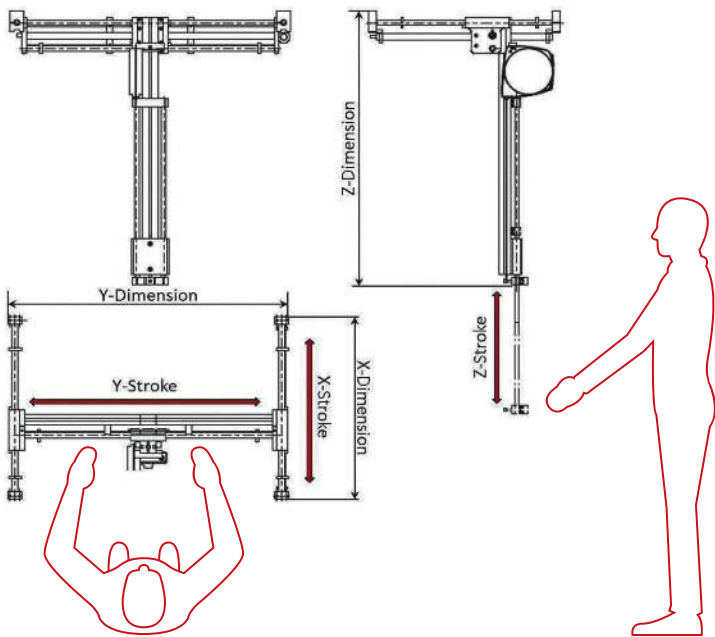
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Customized Machine

Single spindle, Multi spindles, Manual or automatic center distance adjustment



- Standard build components
- Increased customer configuration
- Simplified maintenance
- Proven solution
- Shorter lead time
- Improved ergonomics



ROLLEX



DESCRIPTION	UNIT	TORQUE		
Maximum Torque	Nm (ft.lb)	30 (22.1)	60 (44.2)	90 (66.4)
X-Stroke (min-max)	mm (in.)	250-450 (every 50) 9.8-17.7 (every 1.97)	250-450 (every 50) 9.8-17.7 (every 1.97)	250-450 (every 50) 9.8-17.7 (every 1.97)
Y-Stroke (min-max)	mm (in.)	250-750 (every 50) 9.8-29.5 (every 1.97)	250-750 (every 50) 9.8-29.5 (every 1.97)	250-750 (every 50) 9.8-29.5 (every 1.97)
Z-Stroke (min-max)	mm (in.)	250-500 (every 50) 9.8-19.7 (every 1.97)	250-500 (every 50) 9.8-19.7 (every 1.97)	250-500 (every 50) 9.8-19.7 (every 1.97)
X-Dimensions	mm (in.)	X-Stroke= 260 (10.2)	X-Stroke= 260 (10.2)	X-Stroke= 260 (10.2)
Y-Dimensions	mm (in.)	Y-Stroke= 290 (11.4)	Y-Stroke= 290 (11.4)	Y-Stroke= 290 (11.4)
Z-Dimensions	mm (lin.)	Z-Stroke= 1070 (42.1)	Z-Stroke= 1070 (42.1)	Z-Stroke= 1070 (42.1)
Maximum Tightening head weight	kg (lb)	20 (44.1)	25 (55.1)	25 (55.1)

Arms and Torque Tubes



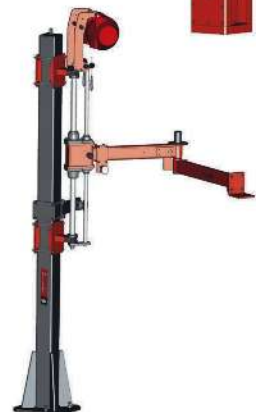
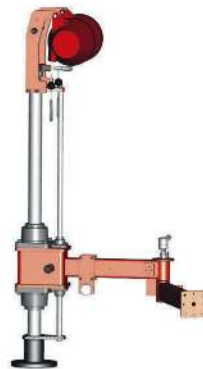
desoutter.info/arms-video

Torque Tubes

- Aluminium (0-250 Nm) (0-185 ft.lb)
- Steel (250-2000 Nm) (185-1480 ft.lb)
- Balancer or pneumatic cylinder suspension



Reaction Arms



300-600-1000-2000 Nm
(221-442-737-1475 ft.lb)
Pneumatic cylinder suspension
Radius 1600 to 4000 mm (5.25 to 13.12 ft)

175 Nm (129.5 ft.lb)
Balancer suspension
Radius 1000 mm (3.28 ft)

150 Nm (111 ft.lb)
Balancer suspension
Radius 1200 to 2000 mm (3.94 to 6.56 ft)

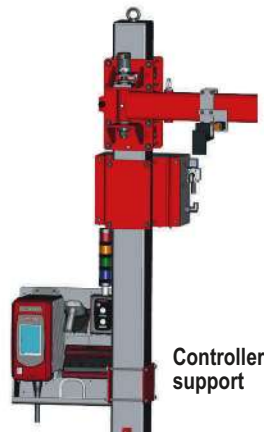
OPTIONS

Torque Tubes options

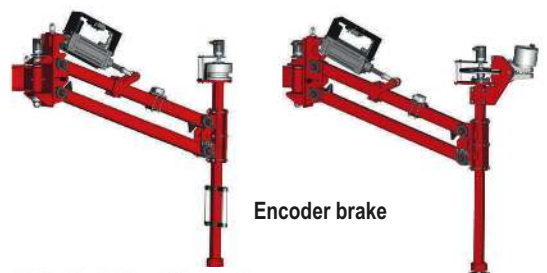
- Controller and accessories stand
- Parking position sensor
- Encoder
- Pneumatic suspension
- Balancers suspension
- Trolley for rails mounting

Arms options

- Controller and accessories stand
- Parking position sensor
- Encoder (possible on each axis)
- Rotating pillar
- Brakes



Controller support



Encoder brake

For further information about tec



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Accessories and Options

Tool holders

Fixed tool holder



X-Rotating tool holder



Indexed X-Rotating tool holder



Z-Rotating tool holder



Indexed Z-Rotating tool holder



Y-Rotating tool holder



Indexed Y-Rotating tool holder



CVI3 HMI & Positioning System

CVI3 HMI

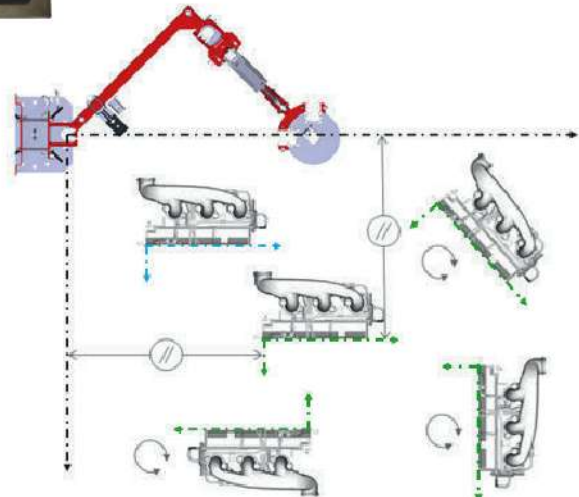
- Standard or specific 4", 7" and 8"
- PC or non PC based
- Plastic or stainless steel enclosure
- From basic input keypad to CVI Advanced HMI



CVI3 Positioning System

can be used in many different cases:

- DSM Arms, D53 Linear and Folded arms, TRA or special Arms
- Based on connected encoders, positioning system permit to control & guaranty every tightening in order to prevent to forget some bolts or to tighten a bolt already tightened
- Controlled tightening system
- Standard, "Relative X & Y" or "Relative X & Y + Z Rotating" mode



Customized Solutions

CONTROLLER STAND

- 1 Controller CVI3 and accessories or 2 controllers
- 1 Controller Twin CVI3 and accessories or 2 controllers
- Multi CVIL2 - Multi CVI3 - Retractable controller stand
- Different options and cable management included



SOCKET TRAY AND HMI SUPPORT



SPECIAL FUNCTIONS:

- Trombons (vertical and horizontal)
- Special gear boxes simple or with Hold and Drive
- Special gear boxes with 2 spindles



For further information about technical solutions, contact us at:



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Other Customized Solutions



CUSTOMIZED SOLUTIONS

- 1 spindle with electromagnet and reaction pin with 2 center distances
- Special multi spindle with orientation, center distance adjustment, suspension with brake, ...
- Trolley and arms on trolley

AND MUCH MORE ON REQUEST !



Screwfeeder Solutions - Handheld & Fixtured units

HST - TELESCOPIC HANDHELD UNIT

- High Productivity
- Light and Compact
- Easy to use/ Easy to maintain
- Push Start System



HSF - ADVANCED HANDHELD UNIT

- High performance rate
- Protuding system (retention in jaws)
- Easy to use/ Easy to maintain
- Optional Advanced Nozzle with swivelling arm



SEL/SRL – STATIONARY UNITS

- Simple & flexible
- Dedicated solution robot with SRL / MTB
- Easy to integrate / Easy to maintain
- SEL with 2 strokes / SRL with 1 stroke



	HST	HSF	SEL	SRL
Type	Hand held	Hand held	Fixture	Fixture
Start	Push	Lever	Remote	Remote
Stroke	up to 78mm	up to 110mm	up to 80/180mm	up to 180mm
Torque	up to 10Nm	up to 15Nm	up to 100Nm	up to 100Nm
Pneumatic & Electric Tools	✓	✓	✓	✓
Screw retention in jaws	✗	✓	✗	✗
Recommended installation	Balancer or Arm	Arm	Fixture Installation	Fixture Installation Robot

ZSE – Modular Bowls feeders



Our bowl units have been strongly designed for a quick and easy access to the critical elements, improving effective efficiency and reducing maintenance time

Accessories

SENSORS



Screw present sensor
Screw feeding detection on hose



Home sensor
Home position detection of cylinders on SEL/SRL



Depth sensor
Depth tightening detection when required by application



Escapement sensors
Control/Secure escapement mechanism

BOWL OPTIONS



Control level
Detect and inform when the bowl is empty

Hopper
increase your bowl capacity

LINEAR ARMS



Fixtured electric spindles ERF-ECF

For your assembly applications, Desoutter offers a range of fixtured electric spindles, transducerized or current controlled with integrated cable



CVIL II Range

MODEL	PART NUMBER	TORQUE RANGE	
		Nm	ft.lb
ERF3L	615 165 286 0	0.35 - 3	0.26 - 2.2
ERF5L	615 165 287 0	0.5 - 5	0.37 - 3.7
ERF10L	615 165 288 0	3 - 10	2.2 - 7.4
ERF20L	615 165 289 0	5 - 20	3.7 - 14.8
ERF20S	615 165 290 0	5 - 20	3.7 - 14.8
ERF30S	615 165 291 0	7 - 30	5.2 - 22.1

CVIC Range

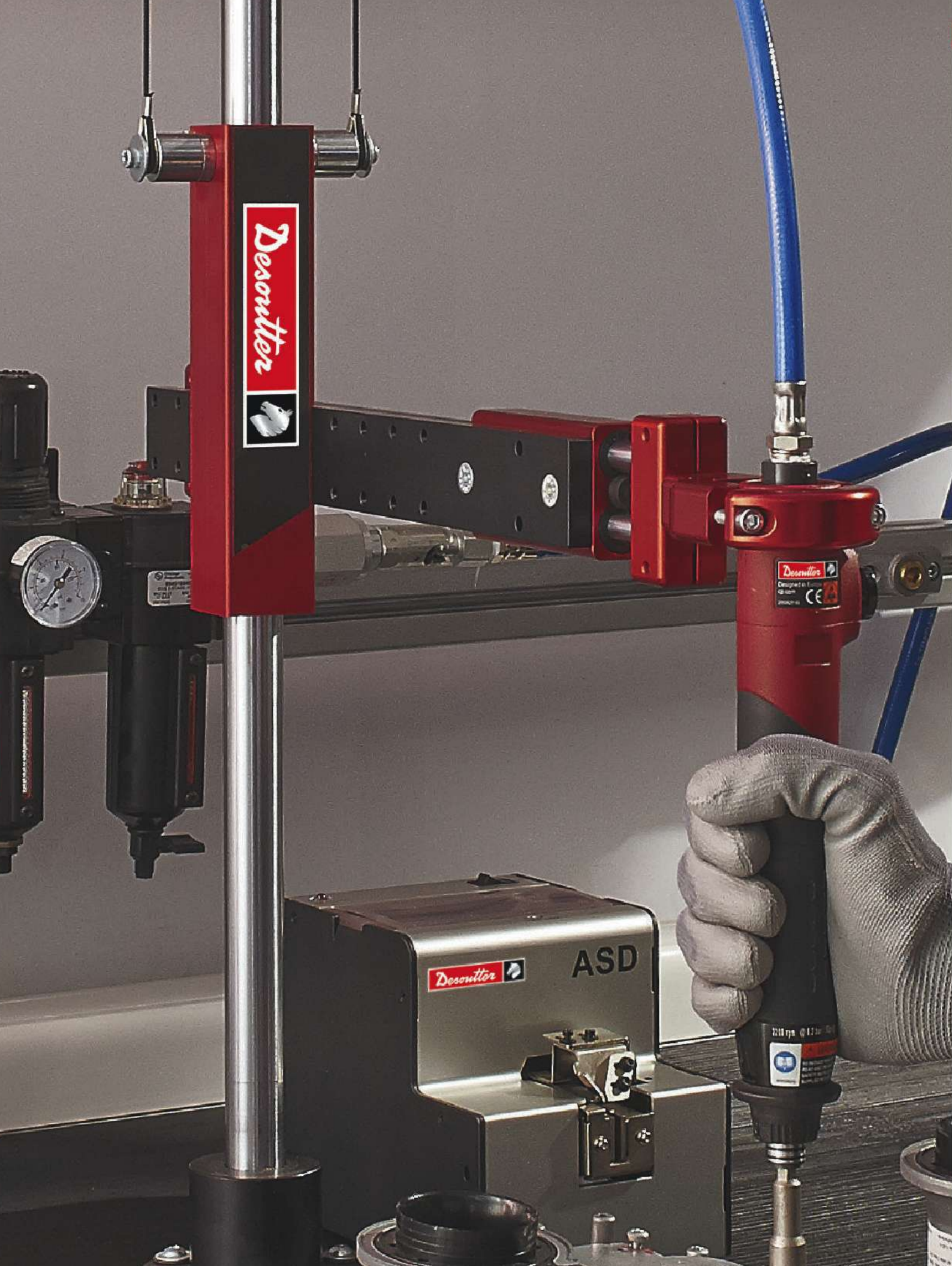
MODEL	PART NUMBER	TORQUE RANGE	
		Nm	ft.lb
ECF3L	615 165 292 0	0.35 - 3	0.26 - 2.2
ECF5L	615 165 293 0	0.5 - 5	0.37 - 3.7
ECF10L	615 165 294 0	3 - 10	2.2 - 7.4
ECF20L	615 165 295 0	5 - 20	3.7 - 14.8
ECF20S	615 165 296 0	5 - 20	3.7 - 14.8
ECF30S	615 165 297 0	7 - 30	5.2 - 22.1

For further information about the technical data see pages 54 and 67

For **ZAMPINI INDUSTRIAL GROUP** **Zampini Industrial Group** **Industrial Air & Electric Tools**
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Desoutter


Desoutter 

ASD

Desoutter
Designed in Europe
CE

2200 rpm @ 1.2 bar


Optimized Workstation

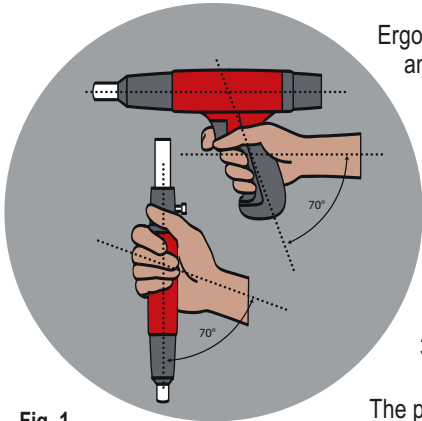


Fig. 1
Holding tools in an ergonomically neutral position

Ergonomics deals with the interactions between operators and their work equipment, work environment and work process

Ergonomically designed work systems enhance safety, effectiveness and efficiency, improve human working and living conditions, and counteract adverse effects on human health and performance

Desoutter has been developing products to improve the comfort of use and counter balance some of the below situations:

1. Hand position on the tool: based on application a straight or pistol grip tool is suggested (Fig. 1)
2. Tool position in the workspace: easy to reach and at the right height to minimize the unnecessary movement of the operator (Fig. 2 and 3)
3. Forces exerted: pulling force, torque reaction and the repetitiveness of these forces (Fig. 2 and 3)

The potential benefits of using Desoutter ergonomic accessories together with tools as described in this brochure are:

- Reduce repetitive stress injuries (RSI)
- Reduced operator fatigue
- Greater productivity
- Improved quality
- Reduced handling time
- Greater operator satisfaction
- Lower recruitment costs

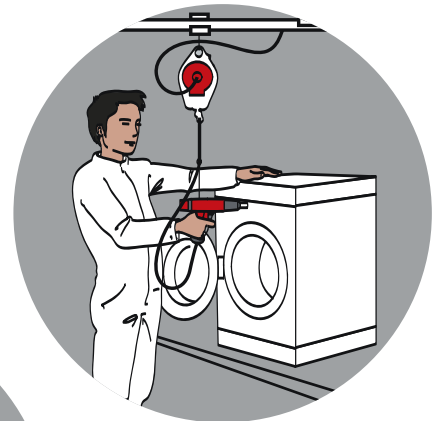


Fig. 2
Desoutter balancer

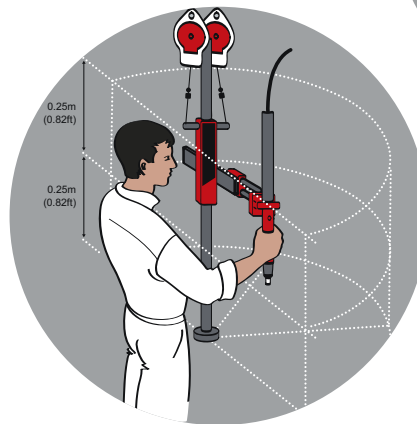
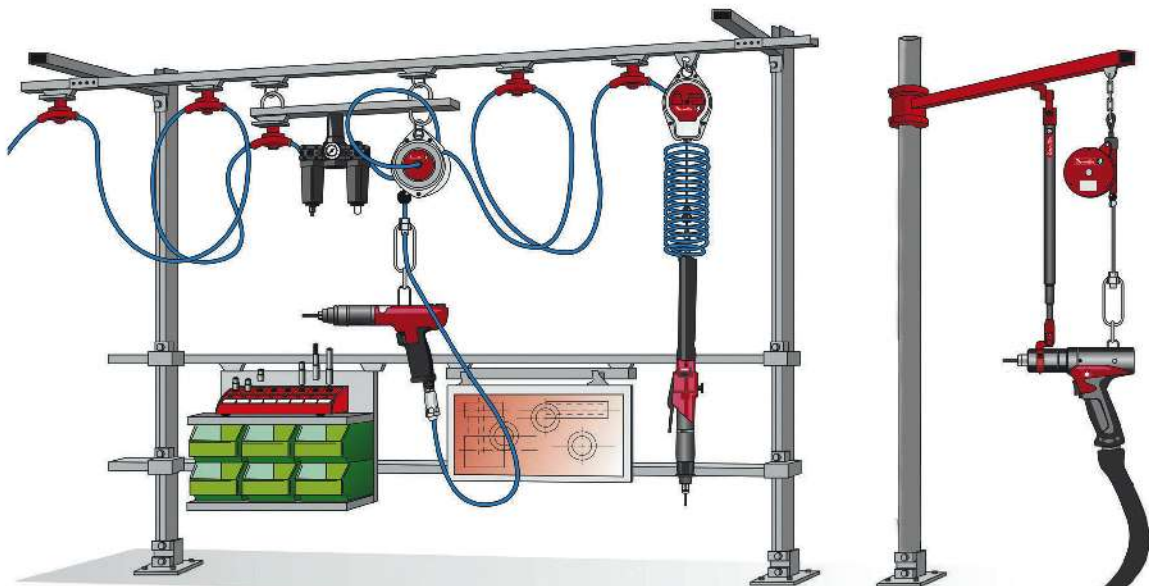
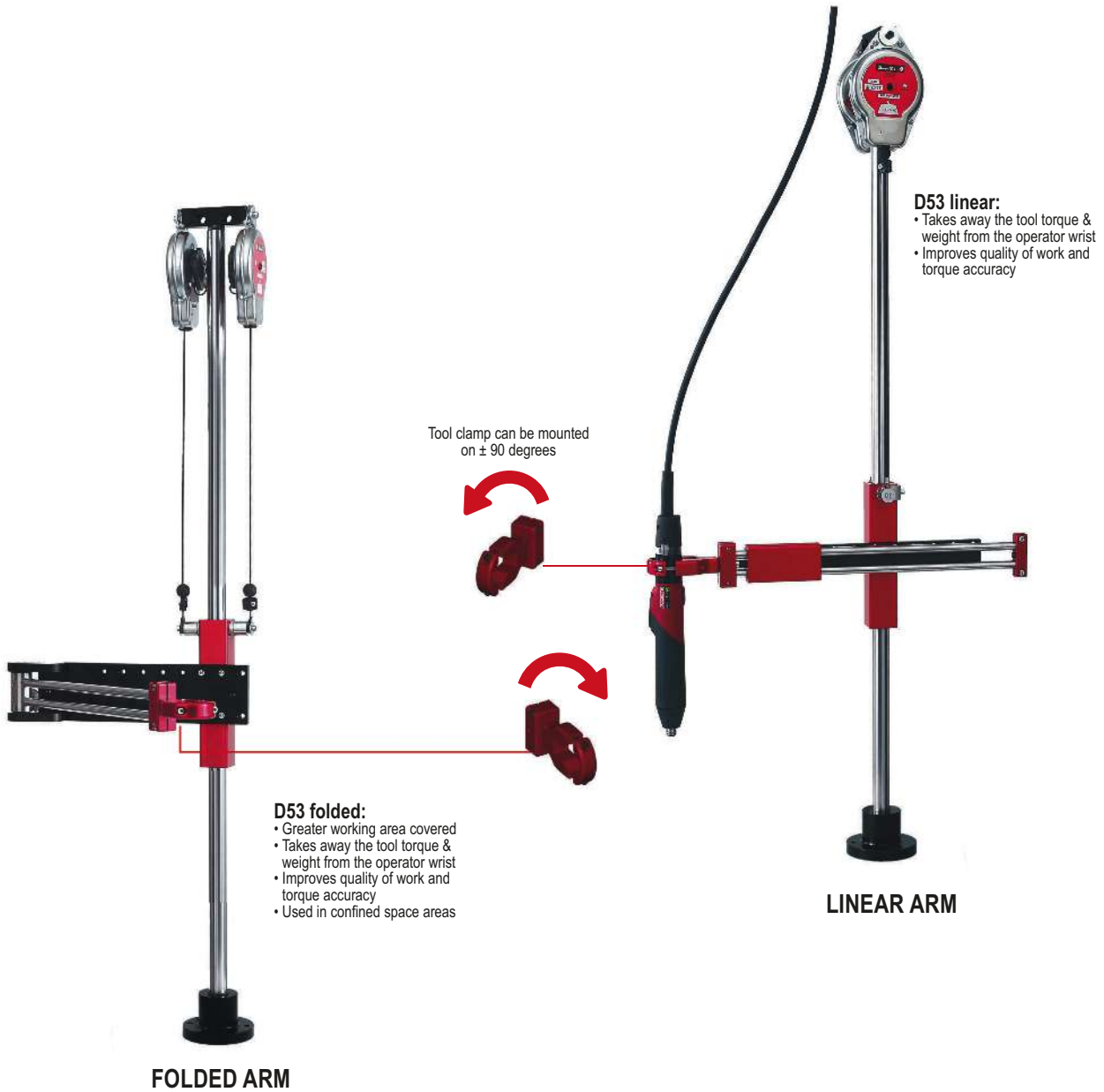


Fig.3
Desoutter torque reaction arm



Linear and Folded torque reaction arms



For full tool clamp program, please see details on page 154

MODEL	PART NUMBER	MAXIMUM TORQUE		MAXIMUM TOOL WEIGHT		ARM EQUIPPED WITH	TOOL CLAMP DIAMETER (INCLUDED WITH THE ARM)		
		Nm	ft. lb.	kg	lb.		mm	in.	
LINEAR ARM									
D53-5*	615 810 700 0	5	3.7	0.8	1.8	1 x 5DU	28.5 - 41	1.12 - 1.62	
D53-12*	615 810 701 0	12	8.8	1.5	3.3	2 x 5DU	28.5 - 41	1.12 - 1.62	
D53-25*	615 810 702 0	25	18.4	2.5	5.5	2 x 5DU	28.5 - 41	1.12 - 1.62	
D53-25X Extended reach*	615 810 703 0	25	18.4	2.2	4.8	2 x 5DU	28.5 - 41	1.12 - 1.62	
D53-50	615 810 704 0	50	36.8	5.0	11.0	2 x 15D	To order separately		
D53-100	615 810 705 0	100	73.7	6.0	13.2	2 x 22D	To order separately		
FOLDED ARM									
D53-5S*	615 810 706 0	5	3.7	0.8	1.8	1 x 5DU	28.5 - 41	1.12 - 1.62	
D53-12S*	615 810 707 0	12	8.8	1.5	3.3	2 x 5DU	28.5 - 41	1.12 - 1.62	
D53-25S*	615 810 708 0	25	18.4	2.5	5.5	2 x 5DU	28.5 - 41	1.12 - 1.62	
D53-50S	615 810 709 0	50	36.8	5.0	11.0	2 x 15D	To order separately		
D53-100S	615 810 710 0	100	73.7	6.0	13.2	2 x 22D	To order separately		

(*) Universal D53 tool clamp inc.



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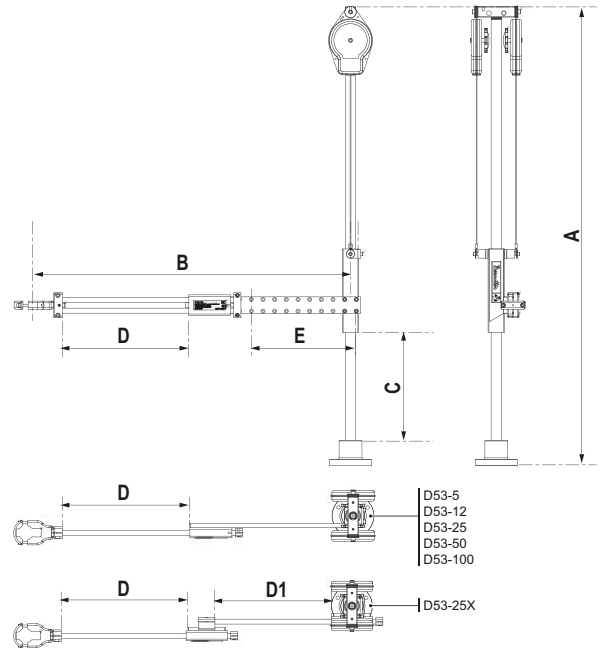
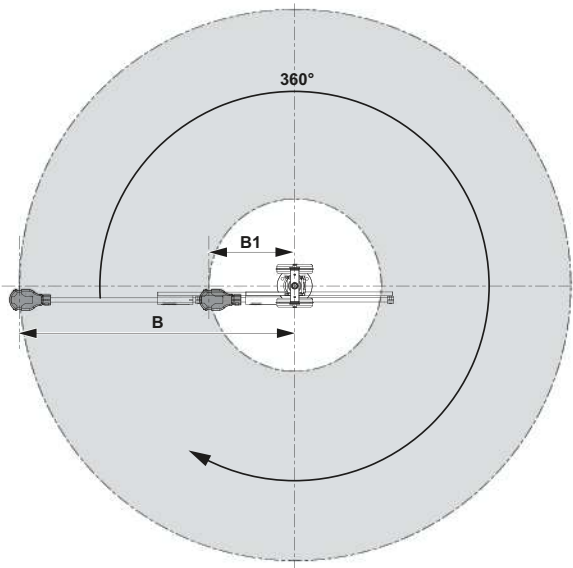
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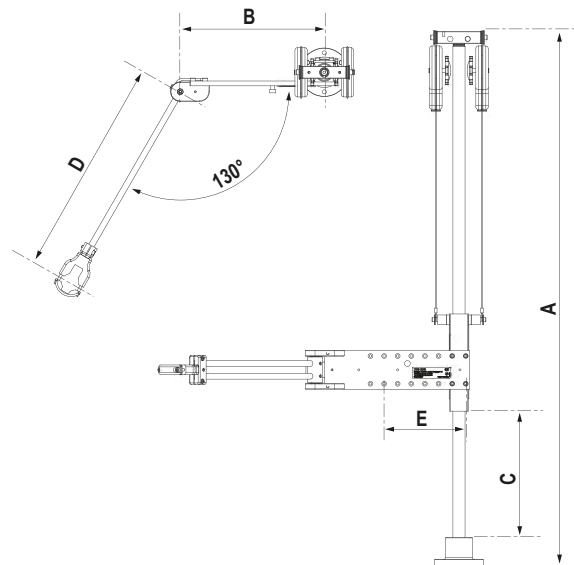
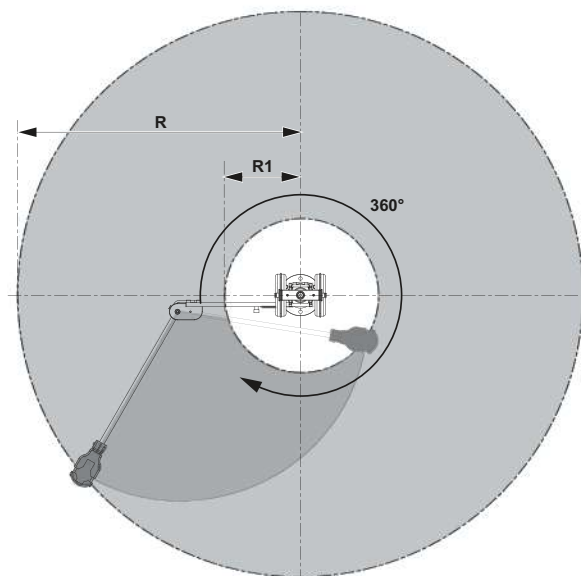
D53 - Dimensions



D53 linear working area product specification

MODEL	PART NUMBER	MAXIMUM TORQUE		HEIGHT A		WIDTH				VERTICAL STROKE C		HORIZONTAL STROKE			FIXED STROKE E		TOOL WEIGHT MAX		
		Nm	ft. lb	mm	in	MAXI-B	MINI-B	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
D53-5	615 810 700 0	5	3.7	732	28.8	592*	23.3*	220*	8.7*	310	12.2	205	8.1	-	-	168	6.6	0.8	1.76
D53-12	615 810 701 0	12	8.9	888	35.0	710*	28*	260*	10.2*	465	18.3	255	10.0	-	-	196	7.7	1.5	3.3
D53-25	615 810 702 0	25	18.4	1132	44.6	779*	30.7*	231*	9.1*	615	24.2	290	11.4	-	-	252	9.9	2.5	5.5
D53-25X	615 810 703 0	25	18.4	1132	44.6	794*	31.2*	230*	9.0*	615	24.2	290	11.4	275	10.8	-	-	2.2	4.85
D53-50	615 810 704 0	50	36.9	1147	45.2	888*	35.0*	267**	10.5**	515	20.3	355	14.0	-	-	266	10.5	5.0	11.0
D53-100	615 810 705 0	100	73.8	1147	45.2	916*	36.0*	255**	10.0**	515	20.3	395	15.6	-	-	266	10.5	6.0	13.2

(* With clamp - (** Without clamp)



D53 folded working area product specification

MODEL	PART NUMBER	MAXIMUM TORQUE		HEIGHT A		WIDTH B		VERTICAL STROKE C		RADIUS D		FIXED STROKE E		RADIUS R		RADIUS R1		TOOL WEIGHT MAX	
		Nm	ft. lb	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
D53-5S	615 810 706 0	5	3.7	732	28.8	248	9.76	270	10.6	370*	14.6*	168	6.6	546	21.5	140	5.5	0.8	1.76
D53-12S	615 810 707 0	12	8.9	888	35.0	298	11.73	425	16.7	420*	16.5*	168	6.6	639	25.2	146	5.8	1.5	3.3
D53-25S	615 810 708 0	25	18.4	1132	44.6	296	11.65	580	22.8	470*	18.5*	168	6.6	685	27	183	7.2	2.5	5.5
D53-50S	615 810 709 0	50	36.9	1147	45.2	336	1.1	520	20.5	440**	17.3**	228	9.0	698	27.5	154	6.1	5.0	11.0
D53-100S	615 810 710 0	100	73.8	1147	45.2	391	15.4	500	19.7	490**	19.3**	228	9.0	788	31	158	6.2	6.0	13.2

(* With clamp - (** Without clamp)



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Linear high torque reaction arms



D53-150/1000 linear:

- High torque arms from 150 to 1000Nm (111 to 740 ft.lb)
- Standard and extended versions

MODEL	PART NUMBER	MAXIMUM TORQUE		MAXIMUM TOOL WEIGHT		BALANCER INCLUDED	TOOL CLAMP DIAMETER
		Nm	ft. lb	kg	lb.		
D53-150	615 811 658 0	150	111	7	15.4	1 x 14DF	To order separately contact your Desoutter representatives
D53-150XL	615 811 659 0	150	111	6	13.2	1 x 14DF	
D53-300	615 811 660 0	300	222	14	30.9	1 x 25DF	
D53-300XL	615 811 661 0	300	222	12.5	27.6	1 x 25DF	
D53-500	615 811 662 0	500	370	30	66.2	1 x 45DF	
D53-500XL	615 811 663 0	500	370	27.4	60.4	1 x 45DF	
D53-1000	615 811 664 0	1000	740	21	46.3	1 x 45DF	
D53-1000XL	615 811 665 0	1000	740	17.0	37.5	1 x 45DF	



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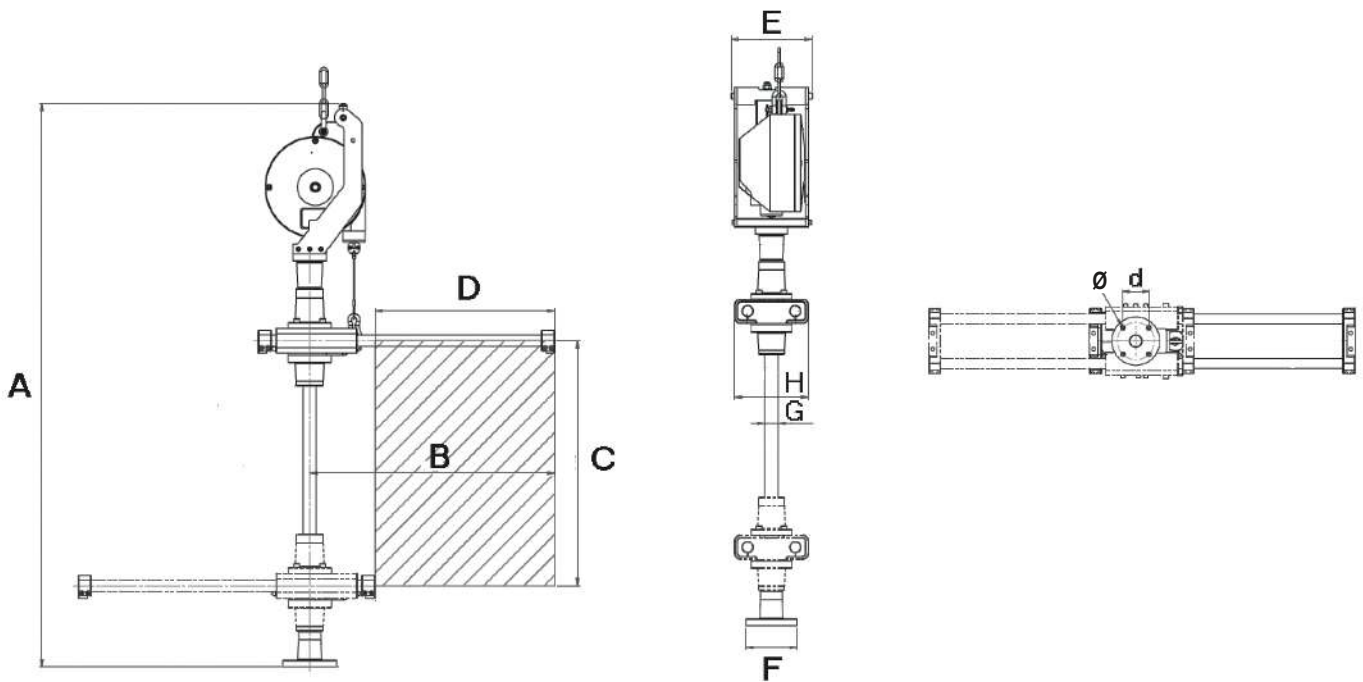
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D53HT - Dimensions



MODEL	PART NUMBER	HEIGHT		WIDTH (WO/CLAMP)				VERTICAL STROKE				TOOL WEIGHT	
		A		MIN-B		MAX-B		MIN-C		MAX-C		kg	lb
		mm	in	mm	in	mm	in	mm	in	mm	in		
D53-150	615 811 658 0	1049	41.3	240	9.4	600	23.6	154.5	6.1	644	25.4	7	15.4
D53-150XL	615 811 659 0	1159	45.6	240	9.4	840	33.1	154.5	6.1	754	29.7	6	13.2
D53-300	615 811 660 0	1216	47.9	260	10.2	660	26.0	180.0	7.1	720	28.3	14	30.9
D53-300XL	615 811 661 0	1296	51	260	10.2	860	33.9	180.0	7.1	780	30.7	12.5	27.6
D53-500	615 811 662 0	1346	53	290	11.4	730	28.7	209.5	8.2	815	32.1	30	66.2
D53-500XL	615 811 663 0	1561	61.5	290	11.4	1090	42.9	209.5	8.2	1009	39.7	27.4	60.4
D53-1000	615 811 664 0	1556	61.3	320	12.6	800	31.5	278.5	11.0	968	38.1	21	46.3
D53-1000XL	615 811 665 0	1691	66.6	320	12.6	1120	44.1	278.5	11.0	1078	42.5	18	39.3

MODEL	HORIZONTAL STROKE									
	D		E		F		G		H	
	mm	in	mm	in	mm	in	mm	in	mm	in
D53-150	360	14.4	170	6.7	90	3.5	25	1.0	150	5.9
D53-150XL	600	24	170	6.7	90	3.5	25	1.0	150	5.9
D53-300	400	16	186	7.3	119	4.7	30	1.2	170	6.7
D53-300XL	600	24	186	7.3	119	4.7	30	1.2	170	6.7
D53-500	440	17.6	180	7.1	119	4.7	40	1.6	170	6.7
D53-500XL	800	32	180	7.1	119	4.7	40	1.6	170	6.7
D53-1000	480	19.2	182	7.2	129	5.1	50	2.0	220	8.7
D53-1000XL	800	32	182	7.2	129	5.1	50	2.0	220	8.7

MODEL	D		Ø		ARM WEIGHT	
	mm	in	mm	in	kg	lb
D53-150	50	2.0	11	0.4	12.5	27.6
D53-150XL	50	2.0	11	0.4	13.7	30.2
D53-300	65	2.6	11	0.4	26.7	58.9
D53-300XL	65	2.6	11	0.4	28.2	62.2
D53-500	65	2.6	11	0.4	40.9	90.2
D53-500XL	65	2.6	11	0.4	43.7	96.3
D53-1000	72	2.8	13.5	0.5	57.9	127.7
D53-1000XL	72	2.8	13.5	0.5	61.5	135.7



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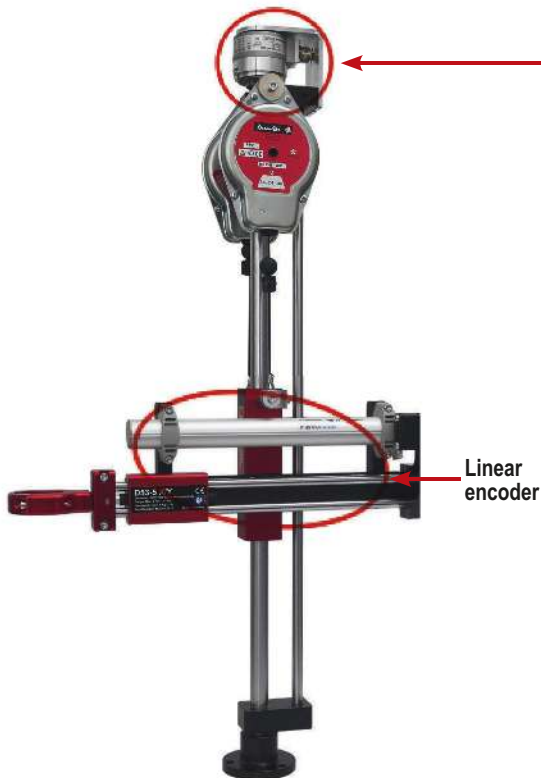
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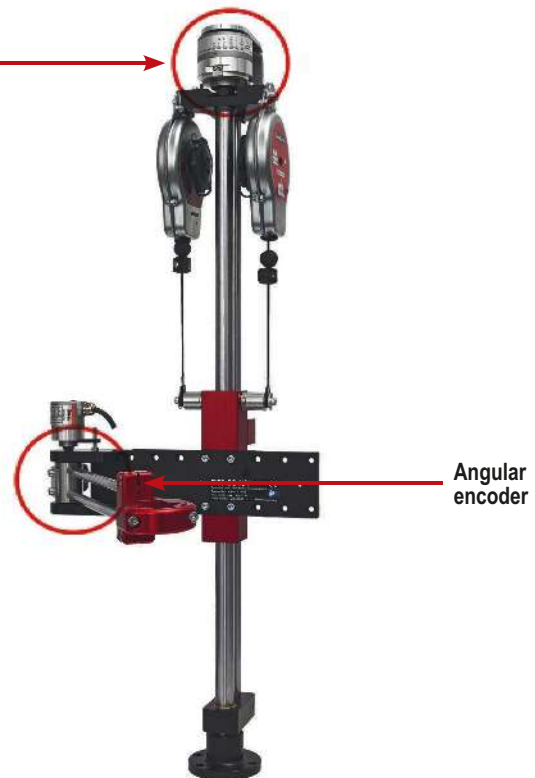


D53 X/Y - Positioning arms

- D53 X/Y stands allows to track the tool position during assembly process
- Same tool stand as D53 standard one
- 2 different versions with encoders
- This arm is intended to be used together with our POSCO 500 to program a complete fastening sequence
- Linear arm: Linear/Angular/Encoders
- Swivel arm: Angular/Angular/Encoders



LINEAR ARM



FOLDED ARM

For full tool clamp program, please see details on page 154

MODEL	PART NUMBER	MAXIMUM TORQUE		MAXIMUM TOOL WEIGHT		ARM EQUIPPED WITH	TOOL CLAMP DIAMETER (INCLUDED WITH THE ARM)	
		Nm	ft.lb	kg	lb.		mm	in.
LINEAR ARM								
D53-5 X/Y AXLE*	615 397 874 0	5	3.7	0.8	1.8	1 x 5DU	28.5 - 41	1.12 - 1.62
D53-12 X/Y AXLE*	615 397 875 0	12	8.8	1.5	3.3	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-25 X/Y AXLE*	615 397 876 0	25	18.4	2.5	5.5	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-50 X/Y AXLE*	615 397 877 0	50	36.8	5.0	11.0	2 x 15D	To order separately	
D53-100 X/Y AXLE*	615 397 878 0	100	73.7	6.0	13.2	2 x 22D		
FOLDED ARM								
D53-5S X/Y AXLE*	615 397 879 0	5	3.7	0.8	1.8	1 x 5DU	28.5 - 41	1.12 - 1.62
D53-12S X/Y AXLE*	615 397 880 0	12	8.8	1.5	3.3	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-25S X/Y AXLE*	615 397 881 0	25	18.4	2.5	5.5	2 x 5DU	28.5 - 41	1.12 - 1.62
D53-50S X/Y AXLE	615 397 882 0	50	36.8	5.0	11.0	2 x 15D	To order separately	
D53-100S X/Y AXLE	615 397 883 0	100	73.7	6.0	13.2	2 x 22D		

(*) Universal D53 tool clamp incl.



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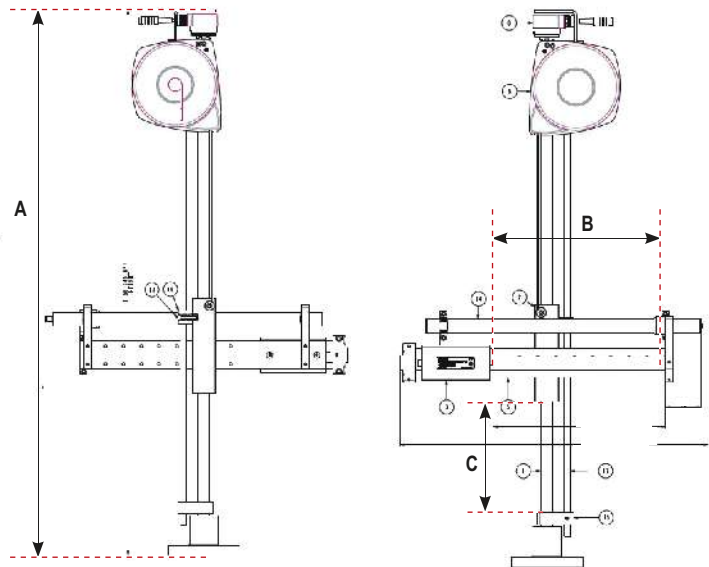
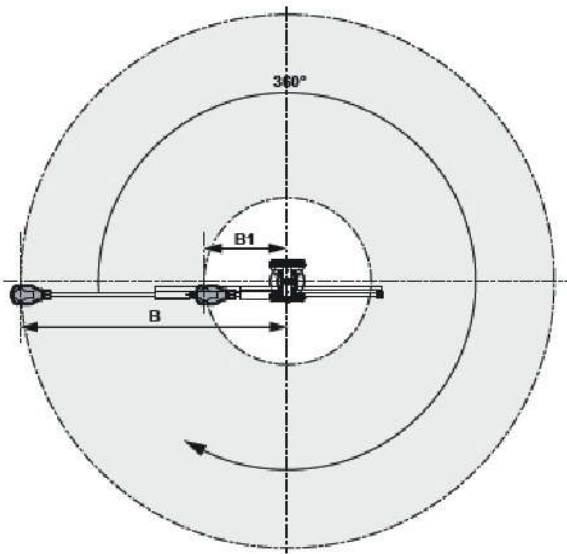
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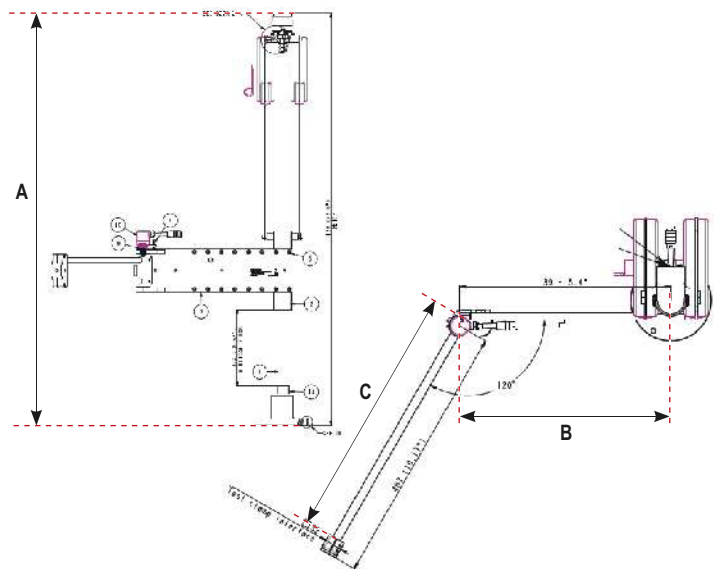
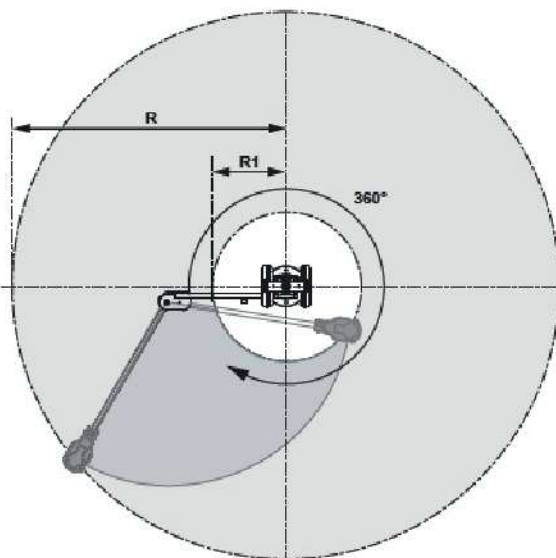
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D53 X/Y - Dimensions



Linear arm

MODEL	PART NUMBER	A		B		C	
		mm	in.	mm	in.	mm	in.
D53-5 X/Y-AXLE	615 397 874 0	789	31.1	206.5	8.1	281	11.1
D53-12 X/Y-AXLE	615 397 875 0	945	37.2	238.5	9.4	436	17.2
D53-25 X/Y-AXLE	615 397 876 0	1189	46.8	291.5	11.5	586	23.1
D53-50 X/Y-AXLE	615 397 877 0	1189	46.8	259.5	10.2	486	19.1
D53-100 X/Y-AXLE	615 397 878 0	1189	46.8	398.5	15.7	486	19.1

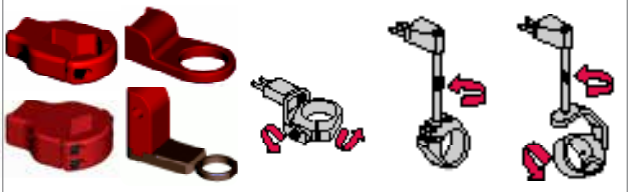


Folded arm

MODEL	PART NUMBER	A		B		C		R		R1	
		mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
D53-5S X/Y AXLE	615 397 879 0	789	31.1	248	9.8	370	14.6	546	21.5	140	5.5
D53-12S X/Y AXLE	615 397 880 0	945	37.2	298	11.7	420	16.5	639	25.2	146	5.8
D53-25S X/Y AXLE	615 397 881 0	1158	45.6	296	11.6	470	18.5	685	27	183	7.2
D53-50S X/Y AXLE	615 397 882 0	1158	45.6	336	13.2	440	17.3	698	27.5	154	6.1
D53-100S X/Y AXLE	615 397 883 0	1158	45.6	394	15.5	400	15.7	788	31	158	6.2

Tool clamp guide for D53 arms

Ordering Process:

SELECT YOUR TOOL	SELECT THE ARM ACCORDING TO: - THE TORQUE APPLICATION - THE REACH NEEDED		ADD THE TOOL CLAMP IF NOT INCLUDED WITH THE ARM				ADD ADAPTORS IF YOU USE ROTATION CLAMPS	
STEP 1	STEP 2		STEP 3				STEP 4	
TOOL MODEL	D53 MODELS		TOOL CLAMP REFERENCES				COMMENTS	
	Linear arms	Swiveling arms	Universal Clamp	Spline	Vertical 2 axis rotation clamp Only for D53-12(S) and D53-25(S)	Horizontal 1 axe rotation clamp Only for D53-12(S) and D53-25(S)	Horizontal 2 axis rotation clamp Only for D53-12(S) and D53-25(S)	
								
SB/SBP/SC2/SC/ SCP(T)SH70 SLB SLC(P) Nose mount ECS/ERS/ECD 5	D53-5* / D53-12* / D53-25* * Tool clamp included	D53-5S* / D53-12S* / D53-25S* * Tool clamp included	615 810 835 0 Included (A) 28.5-41mm		615 396 615 0 + 409083 NOT Included To be ordered	615 396 615 0 + 409113 NOT Included To be ordered	615 396 615 0 + 409173 NOT Included To be ordered	
SD/SDP/SDT ERP 3/5/10/20 ECP 3/5/10/20	D53-5* / D53-12* / D53-25* * Tool clamp included	D53-5S* / D53-12S* / D53-25S* * Tool clamp included	615 810 835 0 Included (A) 28.5-41mm		615 396 615 0 + 409093 NOT Included To be ordered	615 396 615 0 + 409123 NOT Included To be ordered	615 396 615 0 + 409183 NOT Included To be ordered	SD Top mount: adaptor ref. 409273 To be ordered with rotation clamps SD Nose mount: 465463 for 320-1470rpm / 465443 for 2200- 3500rpm - To be ordered with rotation clamps
SLC Top mount	D53-5 / D53-12	D53-5S D53-12S	615 810 838 0 NOT Included To be ordered (B) 40-50 mm		615 396 615 0 + 409093 NOT Included To be ordered	615 396 615 0 + 409123 NOT Included To be ordered	615 396 615 0 + 409183 NOT Included To be ordered	
ECA 15/20/30	D53-5 D53-12 D53-25	D53-5S D53-12S D53-25S	615 810 838 0 NOT Included To be ordered (B) 40-50 mm					
SH 150/200/280/420/500 SH 700/850 ERP 30/40 ERAL1.5/2 ECS/ERS	D53-25(X) D53-50 D53-100	D53-25S(X) D53-50S D53-100S		615 811 029 0 NOT Included To be ordered (B) 28-55 mm				
ERDL 4 ECD 50/70/120	D53-50 / D53-100	D53-50S D53-100S		615 810 203 0 NOT Included To be ordered (C)				
EID 44-1200 EID 75-900 EID 65-800	D53-50 / D53-100	D53-50S D53-100S		615 812 136 0 NOT Included To be ordered (C)				
ERDL 6	D53-100	D53-100S		615 810 205 0 NOT Included To be ordered (C)				
ECD20/30	D53-25(X) D53-50	D53-25S(X) D53-50S		615 810 628 0 + 615 396 191 0 NOT Included To be ordered (D)			Parts to be welded	
ERAL 4-90/110/120 ERAL 6-135 ECA 70... 150	D53-100	D53-100S		615 810 628 0 + 615 396 227 0 NOT Included To be ordered (D)			Parts to be welded	
EID25-1200 EID 32-900 EDP/ERDL 1.5/2	D53-50	D53-50S		615 810 628 0 + 615 396 551 5 NOT Included To be ordered (D)			Parts to be welded	

For the tools not mentioned in the



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Tool clamps



A



B



C



D



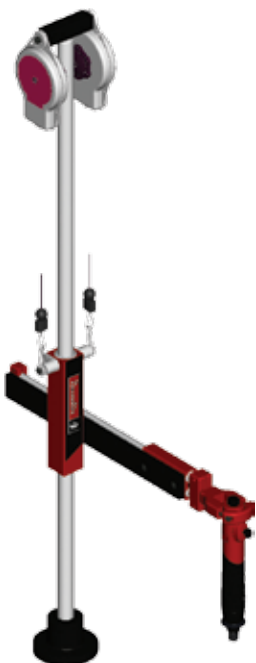
E

Specific Clamps

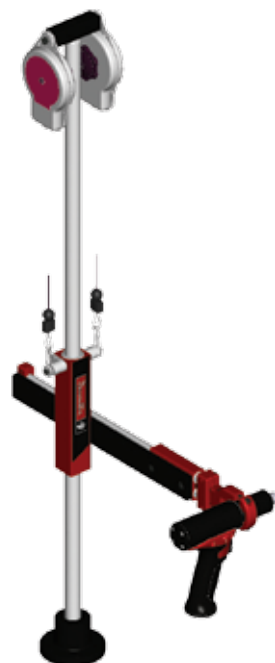
MODEL E	PART NUMBER
SB	615 810 123 0
SC2 / SBP / SCP(T) / SLB / ECS / SLC(P) SDP(T)	615 810 125 0
SD SH70/150/200/280 /420/500	615 810 129 0
SH700/850	615 810 131 0

D53 Tool positioning

Straight tool



Pistol grip tool



Angle nutrunner



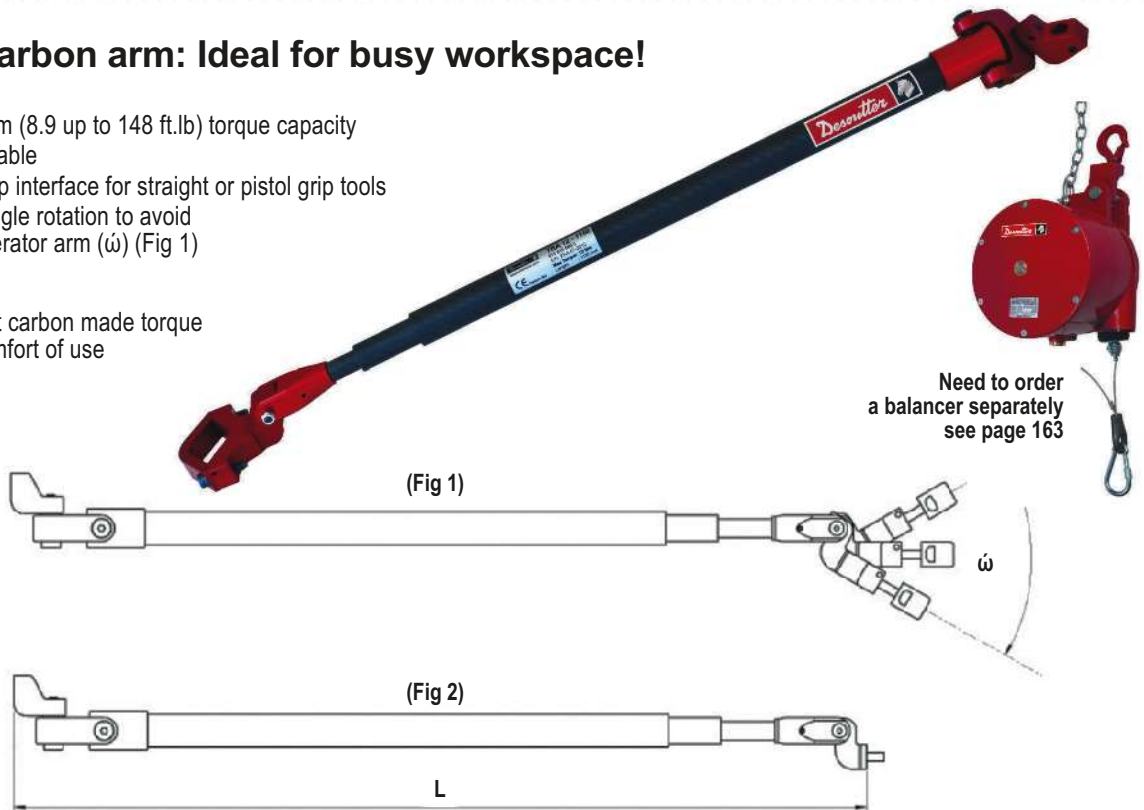
TRA - Telescopic reaction arms

Telescopic carbon arm: Ideal for busy workspace!

- From 12 up to 200 Nm (8.9 up to 148 ft.lb) torque capacity
- Several lengths available
- 90 degrees tool clamp interface for straight or pistol grip tools
- Limited tool clamp angle rotation to avoid side forces in the operator arm (ω) (Fig 1)

Benefits:

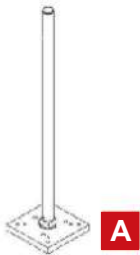
- Extremely lightweight carbon made torque arm for improved comfort of use
- Flexible solution



Need to order a balancer separately see page 163



B



A



C

** Universal balancer adapter

OPTIONAL ACCESSORIES

ITEM	DESCRIPTION	PART NUMBER
A	Bench stand Ø 32mm (1.26") - H 753mm (29.64")	615 810 194 0
B	Bench stand holder Ø 32mm (1.26") for TRA 12/25	615 810 121 0
B	Bench stand holder Ø 32mm (1.26") for TRA 50/100	615 810 140 0
C	Universal balancer adapter	615 397 922 5

MODEL	PART NUMBER	MAXIMUM TORQUE		MAX. MIN LENGTH L		ω (DEG)	WEIGHT		TOOL CLAMP DIAMETER (INCLUDED WITH THE ARM)	
		Nm	ft. lb	mm	in.		kg	lb	mm	in.
TRA12 1150*	615 810 089 0	12	8.9	516-1128	20-44	170	0.46	1.01	28-49	1.10-1.92
TRA12 1600*	615 810 090 0	12	8.9	666-1578	26-62	170	0.51	1.12	28-49	1.10-1.92
TRA12 2100*	615 810 091 0	12	8.9	835-2083	32-82	170	0.57	1.26	28-49	1.10-1.92
TRA25 1150*	615 810 092 0	25	18.4	524-1124	20-44	170	0.60	1.32	28-49	1.10-1.92
TRA25 1600*	615 810 093 0	25	18.4	674-1574	26-62	170	0.70	1.54	28-49	1.10-1.92
TRA25 2100*	615 810 094 0	25	18.4	841-2075	33-82	170	0.77	1.70	28-49	1.10-1.92
TRA25 2600*	615 810 095 0	25	18.4	1007-2573	39-101	170	0.86	1.89	28-49	1.10-1.92
TRA50 1600*	615 810 096 0	50	36.9	712-1624	28-64	40	1.14	2.51	28-50	1.10-1.97
TRA50 2100*	615 810 097 0	50	36.9	878-2125	34-84	40	1.24	2.73	28-50	1.10-1.97
TRA50 2600*	615 810 098 0	50	36.9	1045-2626	41-103	40	1.34	2.95	28-50	1.10-1.97
TRA100 1600	615 810 099 0	100	73.8	722-1628	28-64	30	1.47	3.24	To order separately (see page 158)	
TRA100 2100	615 810 100 0	100	73.8	889-2129	35-83	30	1.41	3.11		
TRA100 2600	615 810 101 0	100	73.8	1056-2630	41-103	30	1.53	3.37		
TRA200 1600	615 810 102 0	200	148	726-1628	28-64	20	1.98	4.36		
TRA200 2100	615 810 103 0	200	148	893-2129	35-84	20	2.18	4.80		
TRA200 2600	615 810 104 0	200	148	1060-2630	41-103	20	2.39	5.27		

(* Universal TRA tool clamp incl



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art No. 615 397 922 5

TRA - Positioning telescopic arms

TRA with positioning system allows to track the tool position during the assembly process

Same telescopic arm as the standard one: from 12 to 200 Nm (8.9 to 148 ft.lb) torque capacity

2 different versions:

- 1 encoder: length measurement
- 2 encoders: length measurement + angle control
- This arm is intended to be used together with our POSCO 500 to program a complete fastening sequence
- Accuracy: +/- 5mm

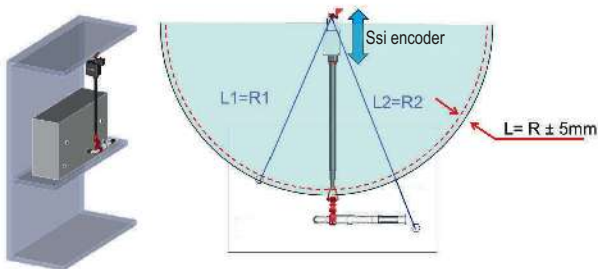


Need to order a balancer separately See page 163

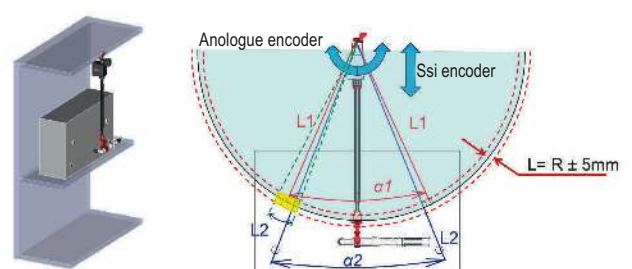


**Universal balancer adapter

1 encoder system



2 encoders system



MODEL	PART NUMBER	NUMBER OF ENCODER	MAXIMUM TORQUE		MAX. MIN. LENGTH		TOOL CLAMP DIAMETER	
			Nm	ft.lb	mm	in.	mm	in.
TRA 12 1600 UNI P *	615 811 694 0	1	12	8.8	1762	69	28 - 49	1.10 - 1.92
TRA 25 2100 UNI P *	615 811 670 0	1	25	18.4	2259	89	28 - 49	1.10 - 1.92
TRA 50 2100 UNI P *	615 811 676 0	1	50	36.8	2311	91	28 - 49	1.10 - 1.92
TRA 100 2100 P	615 811 682 0	1	100	73.7	2315	91	To be ordered separately (page158)	
TRA 200 2100 P	615 811 688 0	1	200	147.4	2317	91	To be ordered separately (page158)	
TRA 12 1600 UNI P2 *	615 811 695 0	2	12	8.8	1762	69	28 - 49	1.10 - 1.92
TRA 25 2100 UNI P2 *	615 811 671 0	2	25	18.4	2259	89	28 - 49	1.10 - 1.92
TRA 50 2100 UNI P2 *	615 811 677 0	2	50	36.8	2311	91	28 - 49	1.10 - 1.92
TRA 100 2100 P2	615 811 683 0	2	100	73.7	2315	91	To be ordered separately (page158)	
TRA 200 2100 P2	615 811 689 0	2	200	147.4	2317	91	To be ordered separately (page158)	

(*) Universal TRA tool clamp included

(**) Universal balancer adapter



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Tool clamps guide for TRA

Ordering Process:

SELECT YOUR TOOL	SELECT THE ARM ACCORDING TO: - THE TORQUE APPLICATION - THE REACH NEEDED	ADD THE TOOL CLAMP IF NOT INCLUDED WITH THE ARM		ADD ADAPTORS IF NEEDED	
STEP 1	STEP 2	STEP 3		STEP 4	
TOOL MODEL	TRA MODEL	TOOL CLAMP REFERENCE	DESCRIPTION	COMMENTS	
SB/SBP - SC2/SCP/SCPT SD/SDP/SDT SH 70/150/200/280 SLB 003/007/010 ECSSLC/SLCP - ERP 3/5/10/20 ECA 15/20 - ECD 5	TRA12* / 25 * * Clamp included with the arm	615 810 118 0 Included with the arm	Universal Clamp 28 - 49mm (1.1 - 1.92")		
SH 420/500 - ERP 30/40 - EAP ERDL 1.5/2 - ERAL 1.5/2 ERAL 4-90 - ECA 30/40/60/70/90	TRA50* / 100 * Clamp included with the arm	615 810 137 0 Included with TRA50. To be ordered for TRA100	Universal Clamp 28 - 50mm (1.1 - 1.97")		
SH 700/850	TRA 100	615 811 363 0 NOT Included with the arm To be ordered	Special clamp		
EAD 50-900	TRA 100	615 811 129 0 NOT Included with the arm To be ordered	Special clamp		
EAD 70-800	TRA 100	615 811 130 0 NOT Included with the arm To be ordered	Special clamp		
EAD 80-650	TRA 100	615 811 131 0 NOT Included with the arm To be ordered	Special clamp		
EAD 105-500	TRA 200	615 811 132 0 NOT Included with the arm To be ordered	Special clamp		
ERDL 4 - 60/80/135 ECD 50/70/120	TRA 100 TRA 200	615 810 203 0 for TRA100 615 810 202 0 for TRA200 NOT Included with the arm To be ordered	Spline G1 D40,5		
EID 44/65/75	TRA50 TRA100	615 812 136 0 NOT Included with the arm To be ordered	Spline G1 D41,5		
ERDL 6 - 170/220/250	TRA 200	615 810 204 0 NOT Included with the arm To be ordered	Spline G1 D50		
EID 25/32	TRA 50	615 810 628 0 + 615 396 551 5 NOT Included with the arm To be ordered	Clamp to be welded	Parts To be ordered	
ECD 20/30	TRA 50	615 810 628 0 + 615 396 191 0 NOT Included with the arm To be ordered	Clamp to be welded	Parts To be ordered	
ERAL 4 - 110/120/140/170 ECA 115/125/150	TRA100 TRA200	615 810 631 0 + 615 396 227 0 NOT Included with the arm To be ordered	Clamp to be welded	Parts To be ordered	
ERAL 4 - 225 ECA 200	TRA 200	615 810 631 0 + 615 396 230 0 NOT Included with the arm To be ordered	Clamp to be welded	Parts To be ordered	

For the tools not mentioned in this list, please ask your local Desoutter contact to define the tool clamp

Torque Tubes

Telescopic arm for vertical fastening applications

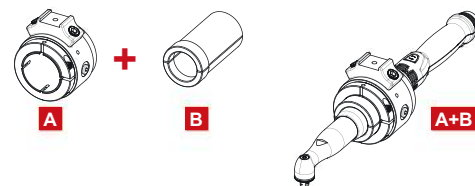
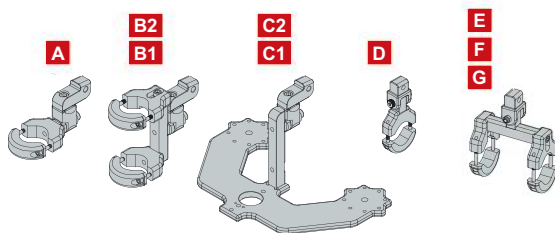
- From 0 to 100 Nm (0 to 73.7ft.lb) torque capacity
- Different strokes available
- Designed to be used with all Desoutter tools
- Gravity center adjustment as option

MODEL	PART NUMBER	MAX TORQUE		STROKE		WEIGHT	
		Nm	ft lb	mm	in	kg	lb
TT10-850/300	615 812 260 0	12	8.9	300	11.8	1.4	3.1
TT25-1150/300	615 812 082 0	25	18.4	300	11.8	3.5	7.8
TT25-1600/600	615 812 261 0	25	18.4	600	23.6	3.9	8.7
TT50-1700/600	615 812 262 0	50	36.9	600	23.6	5.3	11.7
TT50-2100/900	615 812 263 0	50	36.9	900	35.4	6.3	13.8
TT100-1700/600	615 812 264 0	100	73.7	600	23.6	8.6	18.9
TT100-2100/900	615 812 265 0	100	73.7	900	35.4	10	22

Tool Clamps

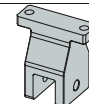
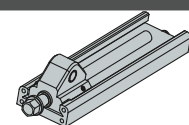
ITEM	PART NUMBER	FOR TUBE	FOR TOOLS
A	615 812 215 0	TT10	SB, SC2 SD, SD220, SLC, ECD5, ECS, ECSF, ECSM, ERDL1-5-20, ERS02, ERS06, ERSF-12
A	615 812 161 0	TT25	ERSF-12, ECS, ECSF, ECD 30, SLB090, SLB120, SD160, SD220
B1	615 812 195 0	TT25	EID 25
B2	615 812 196 0	TT25	ECD20, ERDL
C1	615 812 197 0	TT25	MC 35-20, MC 38-10, EME 35-20J, EME 38-10J
C2	615 812 198 0	TT25	EFDE 43-15
D	615 812 218 0	TT10	SD070, SD072, SLCF
D	615 812 199 0	TT25	SH200-LR550 S90-A10S
E	615 812 200 0	TT25	EAD20, EAB15-26, ERAL20-30-40, SPD209-300-LR90, SH150-280
F	615 812 220 0	TT10	SH70, SH150
F	615 812 201 0	TT25	ECA 15, ECA 20-30, ERAL 1-5-15-25-35
G	615 812 221 0	TT10	ECSA, ERSAD2, ERSA06, ERSA12
G	615 812 202 0	TT25	ERSA 12

PART NUMBER		FOR TUBE	FOR TOOLS
A	B		
615 812 903 0	615 812 260 0	TT50	EBA26, EAB32, EAB45, EBAC26, EABC32, EABC45
	615 812 082 0	TT50	ERAL2-80
	615 812 261 0	TT50	EAB50, EAD50
	615 812 262 0	TT50	EABC60
	615 812 263 0	TT50	EABC20-30, ECA40, ECA60
	615 812 264 0	TT50	SH700
615 812 904 0	615 812 265 0	TT50	SH420, SH500
	615 812 898 0	TT100	ECA20-70, ECA90, ECA115
	615 812 895 0	TT100	EABC75
	615 812 896 0	TT100	ERAL4-90-110-120
	615 812 897 0	TT100	SH850



OPTIONAL ACCESSORIES

PART NUMBER	DESCRIPTION	FOR TORQUE TUBE
615 812 203 0	Gravity center adjustment	TT10
615 812 149 0	Gravity center adjustment	TT25
615 812 532 0	Gravity center adjustment	TT50
615 812 539 0	Gravity center adjustment	TT100
615 812 211 0	Rigid fixation	TT10
615 812 157 0	Rigid fixation	TT25
615 812 535 0	Rigid fixation	TT50 / 100
615 812 141 0	Balancer DU fixation	TT10 / 25
615 812 145 0	Balancer DU fixation	TT25
615 812 522 0	Balancer DU fixation	TT50 / 100



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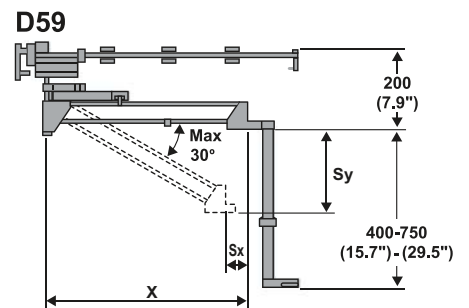
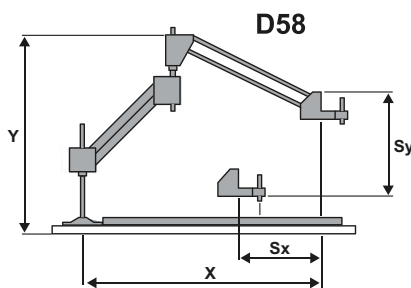
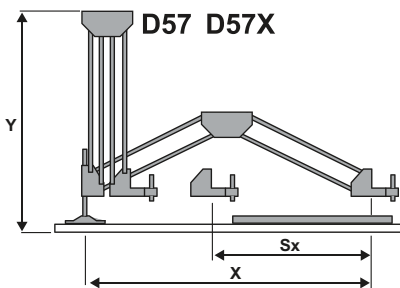
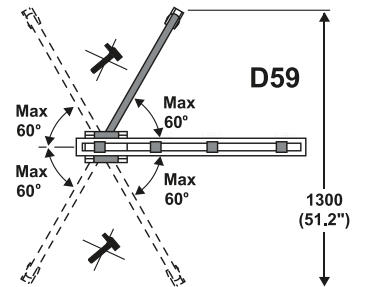


Balancing arms D57, D58, D59



- D57/D57X/D58**
How To Order
1. Basic Stand
 2. Tool Holder
 3. Optional Accessories

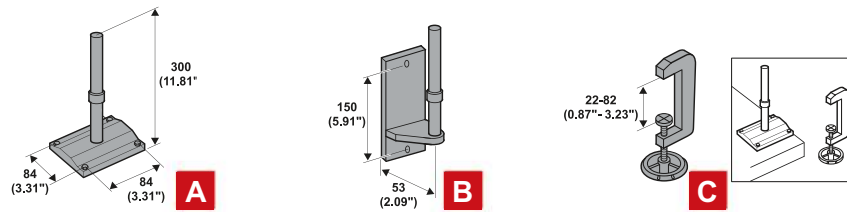
- D59**
How To Order
1. Basic Stand
 2. Tool Holder
 3. Rail (supplied per meter, e.g. for 3m order (3) of PN. 409213)
 4. Rail End Stops (2 required per complete rail)
 5. Optional Accessories



D57 / 58 / 59 BALANCING ARMS

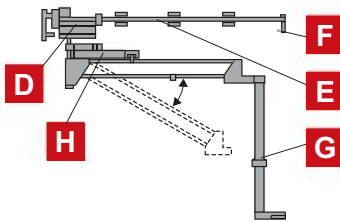
PIC REF.	MODEL	PART NUMBER	MAXIMUM TORQUE		OVERALL HORIZONTAL (X)		OVERALL VERTICAL (Y)		STROKE HORIZONTAL (Sx)		STROKE VERTICAL (Sy)		TOOL WEIGHT CAPACITY		ACCESSORIES INCLUDED
			N.m	ft.lb	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb	
A	D57	408903	20	14.75	700	25.55	550	21.6	510	20.7	95	3.74	2	4.4	BENCH MOUNT
A	D57X	408913	20	14.75	850	33.46	550	21.6	610	24.0	95	3.74	2	4.4	BENCH MOUNT
B	D58	408923	20	14.75	710	27.95	600	23.6	600	23.6	180	7.08	2	4.4	BENCH MOUNT
C	D59	408933	20	14.75	650	25.60	200	7.87	70	2.75	250	9.84	2	4.4	RAIL CARRIAGE

Tool clamps



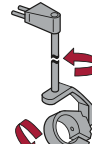
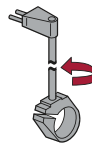
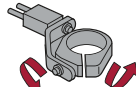
ACCESSORIES

ITEM	PART NO.	DESCRIPTION	D57 / D57X	D58	D59
A	408953	Bench Mount (Included with the stand)	✓	✓	
B	408963	Wall Mount Bracket	✓	✓	
C	408973	Table Stand Clamp	✓	✓	
•	408993	Heavy Duty Spring 1 - 2,5 kg	✓		
D	409253	Rail Carriage (Included with the stand)			✓
E	409213	Rail Per Meter			✓
F	409223	Rail End Stops			✓
G	409203	Telescopic Height Adjustments			✓
H	409233	Top Arrestor / Vertical Lock			✓
H	409243	Side Arrestor / Horizontal Lock			✓



must also order top arrestor when using side arrestor

D57/58/59 TOOL CLAMPS	Ø28.5-41MM	Ø40-50MM	VERTICAL 2 AXIS ROTATION	HORIZONTAL SINGLE AXIS ROTATION	HORIZONTAL 2 AXIS ROTATION	ADAPTOR SLEEVE BLANK (supplied as standard with tool holders) to be machined to suit the tool
PART NO.	615 396 6140	615 396 6290	409083 Ø36mm (1.42) 409093 Ø46mm (1.8) 409103 Ø56mm (2.2)	409113 Ø36mm (1.42) 409123 Ø46mm (1.8) 409133 Ø56mm (2.2)	409173 Ø36mm (1.42) 409183 Ø46mm (1.8)	409273 Ø46mm (1.8) (OUTSIDE) Ø30mm (1.18) (INSIDE) 409023 Ø56mm (2.2) (OUTSIDE) Ø40mm (1.57) (INSIDE)



Pneumatic Screwdrivers

SB / SBP	✓		409083	409113	409173	
SC2 / SCP / SCPT	✓		409083	409113	409173	
SD / SDP	✓		409093	409123	409183	Ring adaptor PN 409273 for SD
SH70 / SH150	✓		409093	409123	409183	

Electric Screwdrivers

SLB	✓		409093	409123	409183	Ring adaptor PN 409273
SLC (nose mount)	✓		409083	409113	409173	
SLC (top mount)		✓	409093	409123	409183	
SLE		✓	409093	409123	409183	Ring adaptor PN 409273
ECS	✓		409083	409113	409173	
ECD5	✓		409083	409113	409173	
ERD5	✓		409083	409113	409173	

Drills

DR 300	✓		409083	409113	409173	
DR 350				409113	409173	
DR 750				409123	409183	Ring adaptor PN 409273



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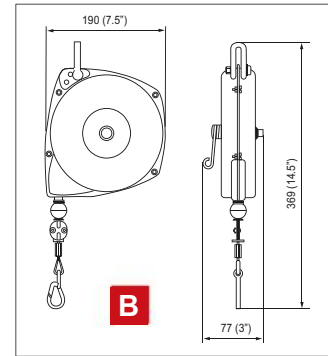
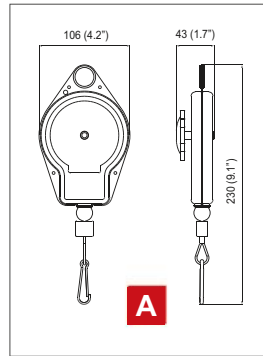


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Balancers D, HU & R Series



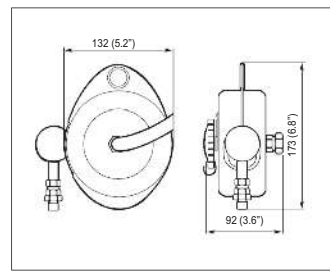
- Steel housing
- Nylon (pic A) Steel (pic B) cable
- Additional support chain included
- 10S / 15S / 22S with drum lock feature: operates only on spring failure



BALANCERS - 1DU - 22S

PIC REF	MODEL	PART NUMBER	LOAD RANGE				CABLE TRAVEL		WEIGHT	
			MIN. CAPACITY		MAX. CAPACITY		m	ft	kg	lb
			kg	lb	kg	lb				
A	1DU	52542	0	0	0.5	1.1	1.5	4.9	0.6	1.3
	2DU	50522	0.5	1.1	1.0	2.2	1.5	4.9	0.6	1.3
	2DUS	54532	0.5	1.1	1.0	2.2	3.0	9.8	0.6	1.3
	3DU	52862	1.0	2.2	1.5	3.3	1.5	4.9	0.6	1.3
	4DU	50532	1.0	2.2	2.0	4.4	1.5	4.9	0.6	1.3
	5DU	50542	1.4	3.1	2.4	5.3	1.5	4.9	0.6	1.3
B	10D	50052	2.5	5.5	5.0	11.0	2.4	7.8	2.7	6.0
	15D	50062	5.0	11.0	7.0	15.4	2.4	7.8	3.2	7.1
	22D	50072	6.0	13.2	10.0	22.0	2.4	7.8	3.2	7.1
	10S*	50572	2.0	4.4	5.0	11.0	2.4	7.8	2.7	6.0
	15S*	50582	5.0	11.0	7.0	15.4	2.4	7.8	3.2	7.1
	22S*	50592	6.0	13.2	10.0	22.0	2.4	7.8	3.2	7.1

* Balancers with drum lock features



- Steel housing
- Additional support chain included
- Polyurethane hose
- 1/4" thread

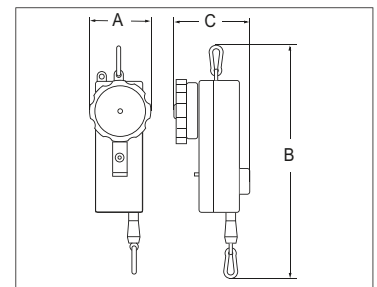
HOSE BALANCERS - 1HU - 4HU

MODEL	PART NUMBER	LOAD RANGE				HOSE TRAVEL		HOSE ID		WEIGHT	
		MIN. CAPACITY		MAX. CAPACITY		m	ft	mm	in.	kg	lb
		kg	lb	kg	lb						
1HU	52552	0	0	0.5	1.1	1.5	4.9	6.5	1/4	1.2	2.6
3HU	50552	0.5	1.1	1.4	3.1	1.0	3.3	6.5	1/4	1.2	2.6
4HU	50562	0.7	1.5	2.0	4.4	1.0	3.3	6.5	1/4	3.3	7.3
4HU-X*	205 148 128 4	0.7	1.5	2.0	4.4	1.0	3.3	6.5	1/4	3.3	7.3

Flow rate: 7.1 l/s (15cfm) - *L= 0.5



- Reaction free: holds the load weightless throughout the entire cable length
- Plastic housing & nylon cable: 2R, 4R
- Steel housing & steel cable: 5R, 10R
- Cable locks in the event of spring failure



BALANCERS - REACTION FREE SELF-LOCK - 2R - 10R

MODEL	PART NUMBER	LOAD RANGE				CABLE TRAVEL		WEIGHT		DIMENSIONS					
		MIN. CAPACITY		MAX. CAPACITY		m	ft	kg	lb	A		B		C	
		kg	lb	kg	lb					mm	in.	mm	in.	mm	in.
2R	54422	0.7	1.5	1.3	2.9	1.7	5.5	0.5	1.1	72	2.8	245	9.6	108	4.3
4R	54432	1.0	2.2	2.0	4.4	1.7	5.5	0.5	1.1	72	2.8	245	9.6	108	4.3
5R	54442	1.7	3.7	3.5	7.7	2.4	7.8	2.3	5.1	116	4.6	427	16.8	155	6.1
10R	54452									27	1.1	27	1.1	155	6.1



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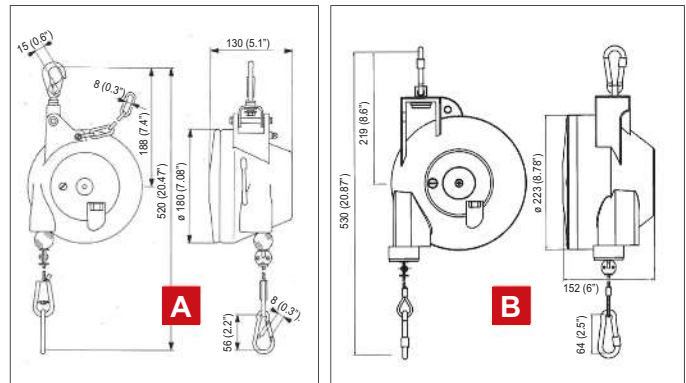
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Balancers - DF & DFL Series



- Reaction free: holds the load weightless throughout the entire cable length
- Rigid and impact-resistant plastic and aluminum housing
- 360° swiveling safety hook for isolated suspension
- Screw-type safety hook for load suspension
- Standard safety chain
- Spring fracture safeguard, integrated drum lock



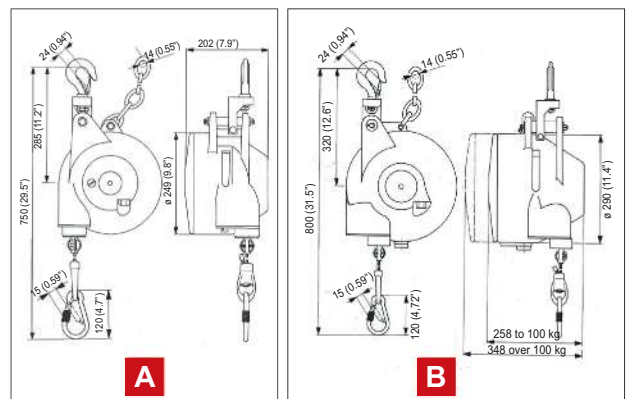
BALANCERS - 5DF - 55 DF

PIC REF	MODEL	PART NUMBER	LOAD RANGE				CABLE TRAVEL		WEIGHT	
			MIN. CAPACITY		MAX. CAPACITY		m	ft	kg	lb
			kg	lb	kg	lb			kg	lb
A	5DF	615 805 011 0	3.0	6.6	5.0	11.0	2.0	6.6	2.9	6.4
	7DF	615 805 012 0	4.5	9.9	7.0	15.4	2.0	6.6	3.1	6.8
	10DF	615 805 013 0	6.0	13.2	10.0	22.0	2.0	6.6	3.2	7.1
	14DF	615 805 014 0	9.0	19.8	14.0	30.9	2.0	6.6	3.4	7.5
	17DF	615 805 015 0	13.0	28.7	17.0	37.5	2.0	6.6	3.6	7.9
	21DF	615 805 016 0	16.0	35.3	21.0	46.3	2.0	6.6	3.8	8.4
B	25DF	615 805 017 0	15.0	33.1	25.0	55.1	2.0	6.6	7.8	17.2
	35DF	615 805 018 0	25.0	55.1	35.0	77.2	2.0	6.6	8.9	16.6
	45DF	615 805 019 0	35.0	77.2	45.0	99.2	2.0	6.6	9.5	20.9
	55DF	615 805 020 0	45.0	99.2	55.0	121.2	2.0	6.6	9.7	21.4

A Plastic housing B Aluminum housing



- Reaction free: holds the load weightless throughout the entire cable length
- Rigid and impact-resistant aluminum housing
- 360° swiveling safety hook
- Cable extension limit stop for overload protection
- Screw-type safety hook for load suspension
- Standard safety chain
- Standard spring fracture safeguard integrated drum lock
- Ferrule for securing cable end
- Freewheel device for protection against handling errors



BALANCERS - 20DFL - 200DFL

PIC REF	MODEL	PART NUMBER	LOAD RANGE				CABLE TRAVEL		WEIGHT	
			MIN. CAPACITY		MAX. CAPACITY		m	ft	kg	lb
			kg	lb	kg	lb			kg	lb
A	20DFL	615 805 021 0	12	26.5	20	44.1	2.0	6.6	14.8	32.6
	30DFL	615 805 022 0	20	44.1	30	66.1	2.0	6.6	15.2	33.5
	45DFL	615 805 023 0	30	66.1	45	99.2	2.0	6.6	16.9	37.2
	60DFL	615 805 024 0	45	99.2	60	132.3	2.0	6.6	17.3	38.1
	75DFL	615 805 025 0	60	132.3	75	165.3	2.0	6.6	18.7	41.2
	90DFL	615 805 026 0	75	165.3	90	198.4	2.0	6.6	19.7	43.4
	100DFL	615 805 027 0	90	198.4	100	220.4	2.0	6.6	20.9	46.1
	115DFL	615 805 028 0	100	220.4	115	253.5	3.0	9.8	41.8	92.1
	130DFL	615 805 029 0	115	253.5	130	286.6	3.0	9.8	43.2	95.2
	140DFL	615 805 030 0	130	286.6	140	308.6	3.0	9.8	44.6	98.3
B	150DFL	615 805 031 0	140	308.6	150	330.7	3.0	9.8	46.0	101.4
	170DFL	615 805 032 0	150	330.7	170	374.8	3.0	9.8	46.4	102.3
	180DFL	615 805 033 0	170	374.8	180	396.8	3.0	9.8	46.7	102.9
	190DFL	615 805 034 0	180	396.8	190	418.9	3.0	9.8	47.0	103.6
	200DFL	615 805 035 0	180	396.8	190	418.9	3.0	9.8	47.3	104.2



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Tool holsters

Desoutter Tool Holster - DTH42 - DTH-90

DTH-42

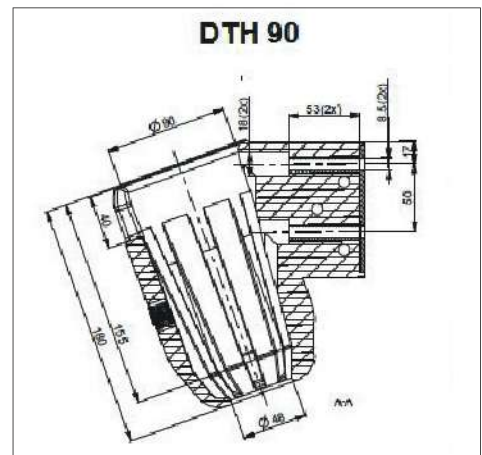
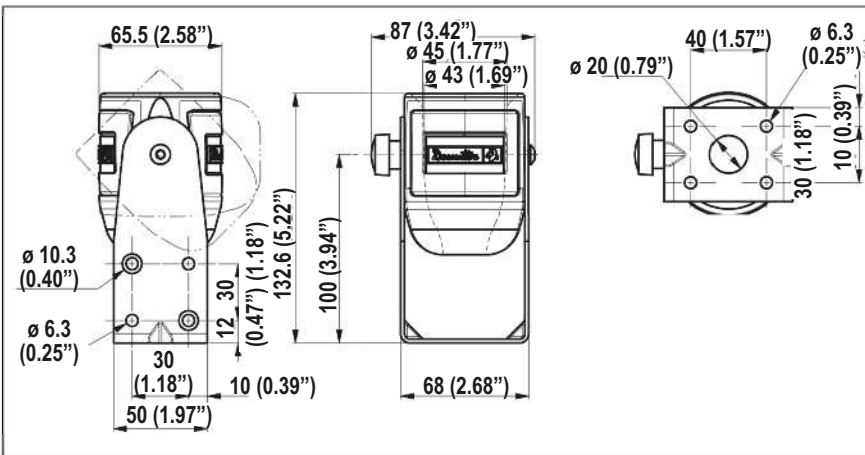
- Adapted for all **straight or pistol grip tools** with an outside diameter of maximum 42 mm
- The mounting plate can be fastened in **several positions** and the plastic ring angle can be set at **different angles**



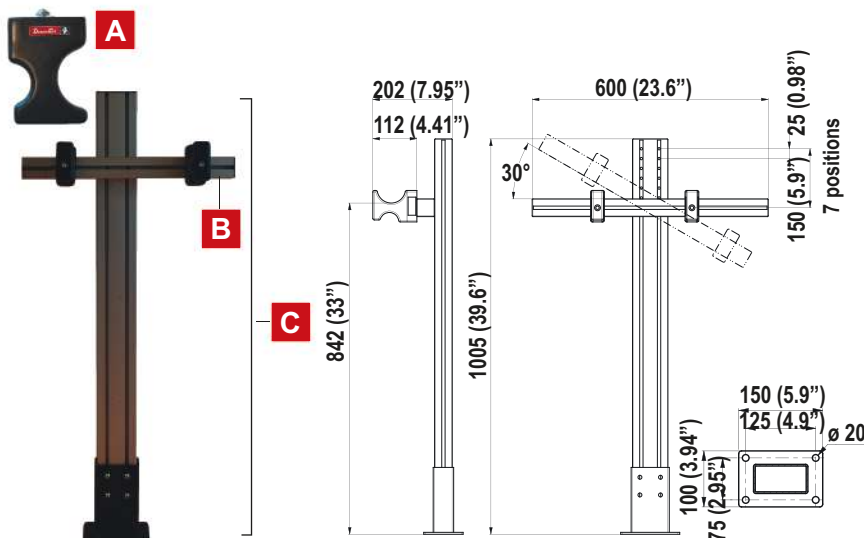
DTH-90

- Used for all **pistol grip tools** with an outside diameter of maximum 90 mm
- Designed with 2 holes for tool sensors presence
- Rubber material
- Mounting screws included

PIC REF	PART NUMBER	DESCRIPTION	MAX. DIAMETER	
			mm	in.
A	107 892	DTH-42	42	1.65
B	615 812 119 0	DTH-90	90	3.54



Desoutter Tool Holster - DTH TWIN



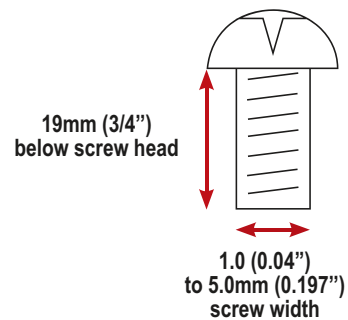
PIC REF	PART NUMBER	DESCRIPTION
A*	615 811 411 0	DTH TWIN (single) without rail
B	615 811 412 5	DTH TWIN rail KIT with 2 TWIN holders
C	615 811 413 5	DTH TWIN stand kit with base & 2 TWIN holders

ASD - Automatic screw dispenser



TO BE USED FOR THE ASSEMBLY OF:

- Electronics: TV, mobile phones, computers
- Medical products
- Small appliances



Boost your productivity and efficiency

- **Widest range of screw sizes:** between 1.0 (0.04") and 5.0mm (0.197") thread diameters (about 11 different screw sizes) including screws with captive washers and up to 19mm (3/4") screw length (under head)
- **Complete:** supplied with universal feeding rail to avoid buying additional and expensive spare rails
- **Fully adjustable:** vibration time, vibration intensity, and drum rotation time adjustments allow the user to optimize the screw feed rate
- **Quiet operation & easy to service**
- Includes: rail adjustment kit, AC adapter and ground wire

PART NUMBER	POWER PLUG	SCREW RANGE		RAIL ADJUSTMENT KIT	DIMENSIONS			POWER				
		SIZE	LENGTH		L	H	W					
						mm	in.	mm	in.	mm	in.	

Automatic Screw Dispenser - ASD

615 810 472 0	UK	M1.0 to M5.0	Up to 19	Up to 3/4"	included	126	5	147	5.8	182	7.2	AC 100 ~ 240V
615 810 473 0	EUR	M1.0 to M5.0	(under head)	(under head)								
615 810 474 0	US											



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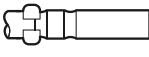



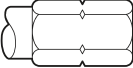

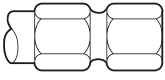

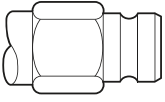

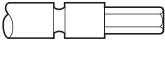

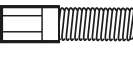

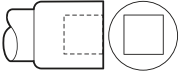
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Fastening accessories


Fastener Head Type	Drivers	Output
 POZIDRIV/SUPADRIV	 4mm Wing Shank	Exx TORX SOCKET SIZE XX
 PHILLIPS	 5mm Wing Shank	SWxx SOCKET SIZE XX
 TORX	 4mm Halfmoon	T TORX SIZE XX
 TORX TAMPER PROOF	 1/4" Hex** Insert (C6.3) (ISO1173/ DIN3126)	INxx HEX BIT SIZE XX
 TORX PLUS	 1/4" Hex Power Drive (E6.3) (ISO1173/ DIN3126)	XZNxx TORX 12 BIT SIZE XX
 INTERNAL HEX	 5/16" Hex Power Drive	
 EXTERNAL HEX	 3mm Hex Power Drive (A3) (ISO1173)	
 SLOT	 Thread Drive	
 TRI-WING	 Square Drive	

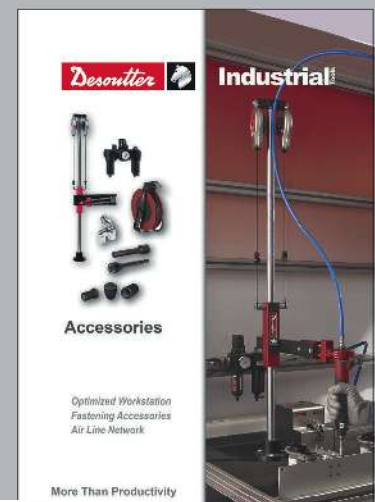
** Note: to be used with a bit holder

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We can propose today a high quality range of bits and sockets with the latest Technology Support and Quality controls.



 For further information see the Accessories catalogue www.desouttertools.com



Drilling and Riveting



Drilling and Riveting - Selection Guide

TOOL TYPE	ACCESSORIES	PAGE
ADVANCED DRILLING UNIT 		170-171
MULTI DRILLS 		173-175
ANGLE DRILLS - Compact 30°, 45°, 90° & 360° Angle Head 		176
ANGLE DRILLS - Standard 45°, 90° & 360° Angle Head - Heavy Duty 90° Angle Head 		177-178
PISTOL GRIP DRILLS 		179-181
STRAIGHT GRIP DRILLS 		182
VACUUM AND COLOR IDENTIFICATION 		183
TAPPERS 		184
SPECIALITY TOOLS - Rivet Shaver & Rack - Rack Feed Drills 		185-187
RIVETING COMPRESSION TOOLS 		188-192
RIVETING HAMMERS 		193



Automatic Drilling Unit



1 STEP OPERATION - DRILLING – REAMING - COUNTERSINKING



Part of Desoutter product portfolio, **Seti-Tec line** offers best-in class performance, quality and reliability for the most demanding drilling applications worldwide.

Seti-Tec solutions have already been adopted by all major Aircraft manufacturers worldwide

This concept is dedicated to highly demanding drilling, reaming, countersinking applications, where quality, precision and repeatability are critical.

Its innovative design make one step drilling, reaming, countersinking possible, and will help driving down your cycle time.

Its design based on modularity concept and the wide variety of clamping options will answer most of your applications.

In addition to the current ST1200 and ST220 pneumatic range, the Electric Drilling Unit range éVo is raising the drilling performance to a new standard.



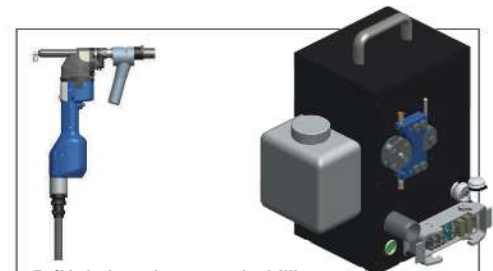
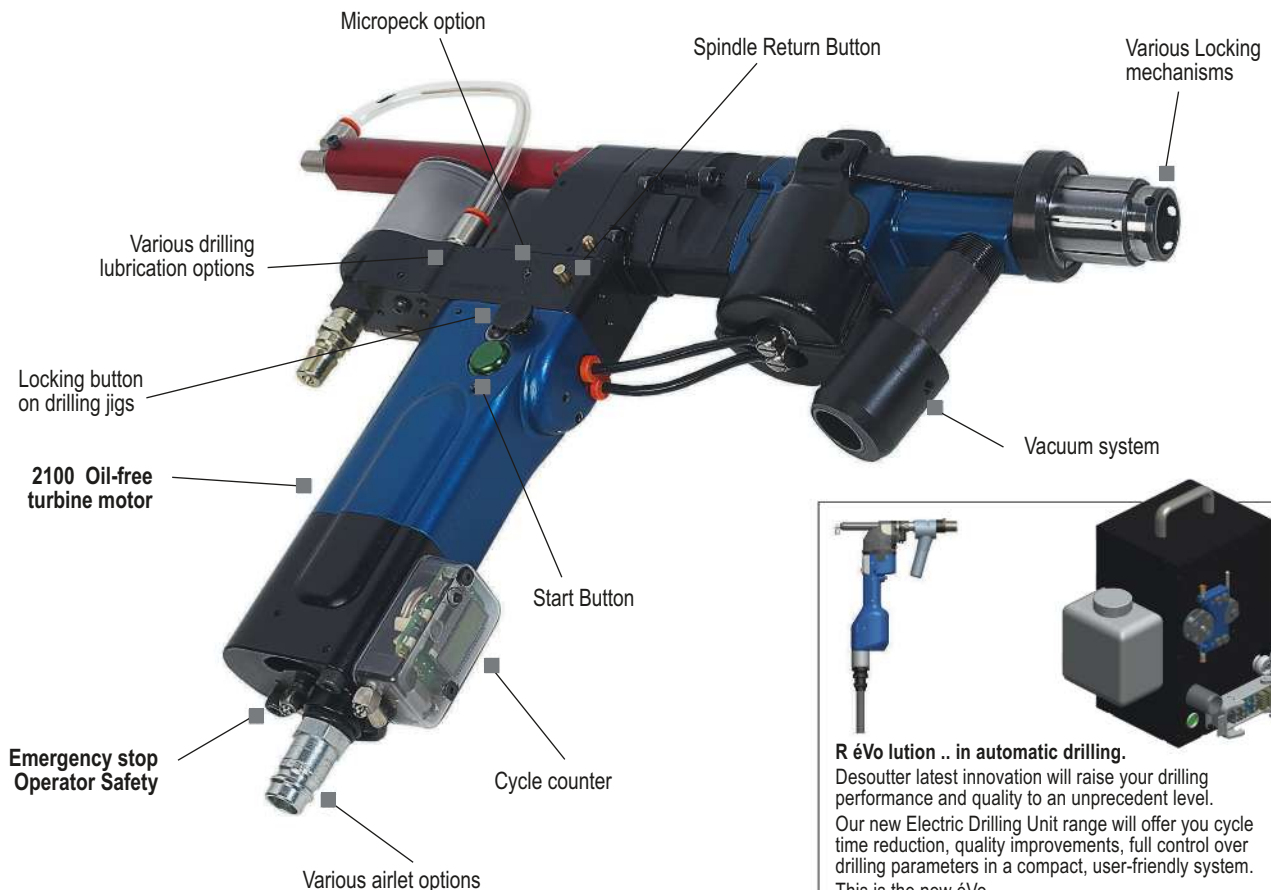
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Chips with micropeck



Chips without micropeck



RéVo lution .. in automatic drilling.

Desoutter latest innovation will raise your drilling performance and quality to an unprecedented level.

Our new Electric Drilling Unit range will offer you cycle time reduction, quality improvements, full control over drilling parameters in a compact, user-friendly system.

This is the new éVo

Industrial Air & Electric Tools www.desoutter.com for more information

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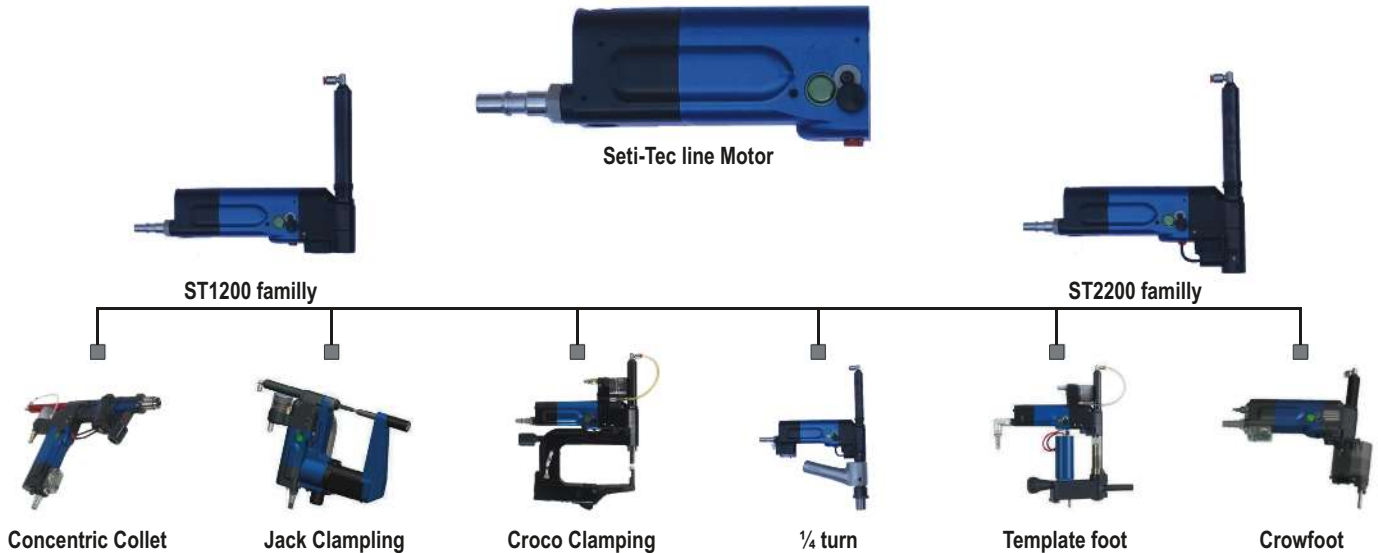
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Automatic Drilling Unit

MODULAR CONCEPT



TECHNICAL INFORMATION

Type: Automatic positive feed drill
Drill and countersink, precision depth 0.02mm

	ST1200	ST2200
Power:	2.8 HP, with torque limiter at lower speed	
Weight:	1.5 kg (3.3lb)	4.2 kg (9.2lb)
Stroke:	Unlimited	
Feed rate:	0.02 mm/rotation	0.04 mm/rotation
	0.04 mm/rotation	0.06 mm/rotation
	0.06 mm/rotation	0.10 mm/rotation
	0.08 mm/rotation	0.12 mm/rotation
	0.10 mm/rotation	0.14 mm/rotation
	0.12 mm/rotation	0.18 mm/rotation
	0.15 mm/rotation	0.20 mm/rotation

Upper feed rates possible to adapt.

Rotation speed:	ST1200	ST2200
	240 rpm	159 rpm
	500 rpm	250 rpm
	1000 rpm	300 rpm
	1700 rpm	540 rpm
	2400 rpm	700 rpm
	3000 rpm	800 rpm
	4600 rpm	900 rpm
	6500 rpm	1200 rpm
	8100 rpm	2600 rpm
	14000 rpm	3000 rpm

Available in a right angle, inline and inline + handle

HOLE DIAMETER	ALUMINIUM COMPOSITE	TITANIUM HARD METAL	ALUMINIUM COMPOSITE	TITANIUM
	Straight hole		Countersink hole	
<4,8mm - 3/16"	ST 1200	ST 1200	ST 1200	ST 1200
<6,35mm - 1/4"				
<7,9mm - 5/16"				
<9,5mm - 3/8"				
<11,1mm - 7/16"				
<12,7mm - 1/2"				
<14,3mm - 9/16"	ST 2200	ST 2200	ST 2200	ST 2200
<15,9mm - 5/8"				
<19,5mm - 3/4"				
<22,2mm - 7/8"				
<25,4mm - 1"				
Over 25,4mm - 1"				

	CONCENTRIC COLLET	BAYONET 1/4 TURN	CROCO CLAMP	JACK CLAMP	TEMPLATE FOOT	CROWFOOT
Thick jig	ST1200 ST2200					
Thick jig with rail or screws		ST1200 ST2200				ST1200 ST2200
Thick jig			ST1200	ST1200	ST1200	
No jig (pre-hole)			ST1200	ST1200	ST1200	



Special right angle

Any specific requirem

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Drill Selection Guide

How to select your tool:

1 Select material 2 Select hole size 3 Define speed

TOOL TYPE	FREE SPEED	TITANIUM	STAINLESS STEEL	HARD CAST IRON, MEDIUM HARD STEEL	SOFT CAST IRON, MILD STEEL	HARD PLASTICS	ALUMINIUM, BRASS, COPPER, BRONZE	COMPOSITE	WOOD, SOFT PLASTICS, CHIPBOARD
	rpm		9-15m/min	10-20m/min	20-35m/min	30-40m/min	50-80m/min	50-100m/min	80-120m/min
Drill ø mm									
30°, 45°, 90°, 360° COMPACT HEAD									
DR300-QR	5500	-	-	-	-	3.0 (1/8")	5.0 (3/16")	5.0 (3/16")	5.0 (3/16")
	4500	-	-	-	-	3.0 (1/8")	5.0 (3/16")	5.0 (3/16")	5.0 (3/16")
	3000	3	-	-	3.0 (1/8")	2	5.0 (3/16")	5.0 (3/16")	-
DR300-T5/S5	2000	-	3.0 (1/8")	4.0 (5/32")	5.0 (3/16")	-	-	-	-
	1000	-	4.0 (5/32")	5.0 (3/16")	-	-	-	-	-
45°, 90°, 360° STANDARD HEAD									
DR300-QR	5500	-	-	-	-	3.0 (1/8")	6.0 (1/4")	5.0 (3/16")	6.5 (1/4")
	4500	-	-	-	-	3.0 (1/8")	6.0 (1/4")	5.0 (3/16")	6.5 (1/4")
	3000	-	-	-	3.0 (1/8")	5.0 (3/16")	6.5 (1/4")	6.5 (1/4")	-
DR300-T6/S6	2000	-	3.0 (1/8")	4.0 (5/32")	6.5 (1/4")	6.5 (1/4")	-	6.5 (1/4")	-
	1000	-	4.0 (5/32")	6.0 (1/4")	6.5 (1/4")	-	-	-	-
	550	6.0 (1/4")	6.5 (1/4")	6.5 (1/4")	-	-	-	-	-
90° HEAVY DUTY									
DR300-THD/SHD	2000	-	3.0 (1/8")	3.0 (1/8")	6.0 (1/4")	8.0 (5/16")	8.0 (5/16")	8.0 (5/16")	8.0 (5/16")
	900	-	7.0 (9/32")	8.0 (5/16")	8.0 (5/16")	-	-	-	-
	2000	-	3.0 (1/8")	3.0 (1/8")	6.0 (1/4")	6.5 (1/4")	6.5 (1/4")	6.5 (1/4")	6.5 (1/4")
	900	-	6.5 (1/4")	6.5 (1/4")	6.5 (1/4")	-	-	-	-
PISTOL GRIP									
DR350	20000							4.0 (5/32")	2.0 (5/64")
	5500						4.0 (5/32")	5.0 (3/16")	6.0 (1/4")
ø8-10 mm (5/16" - 3/8") cap.	4500					3.0 (1/8")	6.0 (1/4")		8.0 (5/16")
	3000				4.0 (5/32")	5.0 (3/16")	8.0 (5/16")		
	2000		3.0 (1/8")	4.0 (5/32")	6.0 (1/4")	8.0 (5/16")	10.0 (13/32")		
	1000		4.0 (5/32")	6.0 (1/4")	8.0 (5/16")				
	550	6.0 (1/4")	8.0 (5/16")						
DR500	18500							4.0 (5/32")	2.0 (5/64")
	5800						4.0 (5/32")	5.0 (3/16")	6.0 (1/4")
ø8-13 mm (5/16" - 1/2") cap.	4300					3.0 (1/8")	6.0 (1/4")	10.0 (13/32")	12.0 (1/2")
	2700			3.0 (1/8")	4.0 (5/32")	5.0 (3/16")	8.0 (5/16")	12.0 (1/2")	
	1800		3.0 (1/8")	4.0 (5/32")	6.0 (1/4")	8.0 (5/16")	10.0 (13/32")		
	1400		4.0 (5/32")	5.0 (3/16")	9.0 (11/32")	11.0 (7/16")			
	1000		5.0 (3/16")	6.0 (1/4")	10.0 (13/32")				
	600	3.0 (1/8")	7.0 (9/32")	8.0 (5/16")	12.0 (1/3")				
	400	6.0 (1/4")	8.0 (5/16")	10.0 (13/32")					
DR750	20000							2.0 (5/64")	2.0 (5/64")
	6000						4.0 (5/32")	5.0 (3/16")	6.0 (1/4")
ø8-13 mm (5/16" - 1/2") cap.	4100					3.0 (1/8")	6.0 (1/4")	8.0 (5/16")	10.0 (13/32")
	3300				3.0 (1/8")	4.0 (5/32")	8.0 (5/16")	10.0 (13/32")	12.0* (1/2")
	2700			3.0 (1/8")	4.0 (5/32")	5.0 (3/16")	10.0 (13/32")	13.0* (1/2")	15.0* (19/32")
	1300		4.0 (5/32")	5.0 (3/16")	9.0 (11/32")	11.0* (7/16")	19.0* (3/4")		30.0* (13/16")
	750	3.0 (1/8")	7.0 (9/32")	8.0 (5/16")	15.0* (19/32")	19.0* (3/4")	30.0* (13/16")		
	400	6.0 (1/4")	8.0 (5/16")	10.0 (13/32")					
STRAIGHT CASE									
DR300-T	20000							4.0 (5/32")	2.0 (5/64")
	5500						4.0 (5/32")	5.0 (3/16")	6.0 (1/4")
ø8-10 mm (5/16" - 3/8") cap.	4500					3.0 (1/8")	6.0 (1/4")		8.0 (5/16")
	3000				4.0 (5/32")	5.0 (3/16")	8.0 (5/16")		
	2000		3.0 (1/8")	4.0 (5/32")	6.0 (1/4")	8.0 (5/16")			
	1000	3.0 (1/8")	4.0 (5/32")	6.0 (1/4")	8.0 (5/16")				
	550	6.0 (1/4")	8.0 (5/16")						

* above standard chuck capacity



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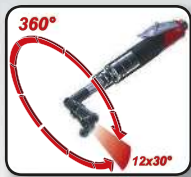
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Multi Drills

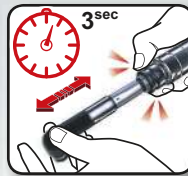


- Modular product range to boost you productivity.
- Full flexibility for difficult access applications.
- Lightweight and excellent ergonomics.
- Robust built, reliable design and excellent run-out.



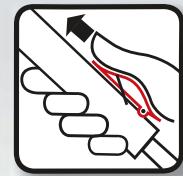
12 positions, 360° orientation

Flexibility
Excellent accessibility



Quick-Release head

Productivity
1 tool for all applications



Safety
Ergonomics
Low weight
Low sound levels
Vacuum kits options

COMPACT HEAD
Collet Ø 5mm (3/16") or 1/4" spindle



STANDARD HEAD
Collet Ø 6.4mm (1/4") / Ø 8mm (5/16") or 1/2" spindle

* Possibility to use ER collets



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Multi-Drills



DR350 Series
350 W (0.5hp) / 1000 to 5500 rpm



DR300 Series
300 W (0.4hp) / 550 to 5500 rpm

PIC REF	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER		WEIGHT		LENGTH		AIR FLOW		AIR INLET
				rpm	W	hp	kg	lb	mm	in.	l/s	
MULTI-DRILLS - PISTOL												
A	DR350-P5500-QR	205 147 984 4	5500	350	0.5	0.50	1.10	169	6.65	9.5	20	1/4
A	DR350-P3000-QR	205 147 528 4	3000	350	0.5	0.50	1.10	169	6.65	9.5	20	1/4
A	DR350-P1000-QR	205 147 981 4	1000	350	0.5	0.58	1.27	187	7.36	9.5	20	1/4
A	DR350-P4500-QR	205 147 983 4	4500	350	0.5	0.58	1.27	187	7.36	9.5	20	1/4

Other speed on request (550 & 2000 rpm)

MULTI-DRILLS - STRAIGHT

B	DR300-T5500-QR	205 147 527 4	5500	300	0.4	0.50	1.10	186	7.32	9.5	20	1/4
B	DR300-T4500-QR	205 147 526 4	4500	300	0.4	0.50	1.10	186	7.32	9.5	20	1/4
B	DR300-T3000-QR	205 147 525 4	3000	300	0.4	0.50	1.10	186	7.32	9.5	20	1/4
B	DR300-T2000-QR	205 147 524 4	2000	300	0.4	0.50	1.10	186	7.32	9.5	20	1/4
B	DR300-T1000-QR	205 147 523 4	1000	300	0.4	0.58	1.27	203	7.99	9.5	20	1/4
B	DR300-T550-QR	205 147 522 4	550	300	0.4	0.58	1.27	203	7.99	9.5	20	1/4

All models: Hose int. 6 mm (1/4")

QUICK RELEASE HEADS

PIC REF	DESIGNATION	PART NUMBER	LENGTH L		COLLET MAX. CAPACITY		WEIGHT	
			mm	in.	mm	in.	kg	lb

COMPACT ANGLE HEADS

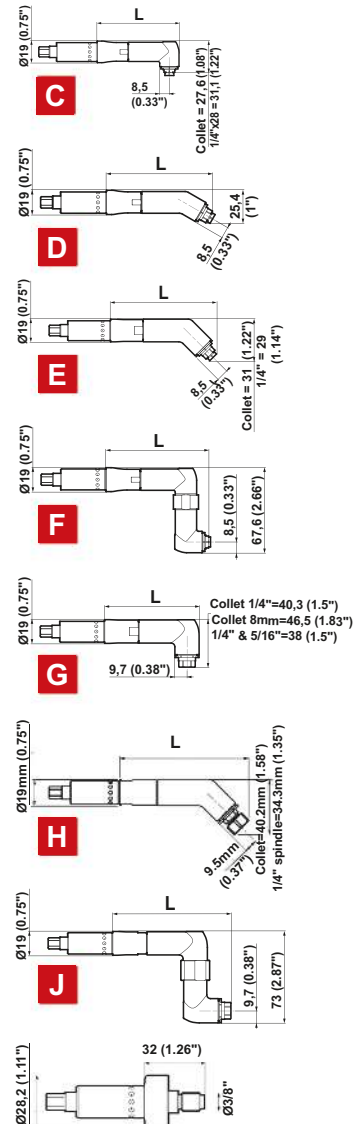
C	Short Compact 90° angle head Collet spindle	205 053 981 3	54.0	2.13	5.0	3/16	0.15	0.33
C	Compact 90° angle head Collet spindle	205 050 331 3	72.0	2.83	5.0	3/16	0.17	0.37
C	Compact 90° angle head 1/4" x 28 spindle	205 050 332 3	72.0	2.83	-	-	0.17	0.37
D	Compact 30° angle head Collet spindle	205 050 329 3	82.9	3.26	5.0	3/16	0.17	0.37
D	Compact 30° angle head 1/4" x 28 spindle	205 050 330 3	82.9	3.26	-	-	0.17	0.37
E	Compact 45° angle head Collet spindle	205 050 335 3	81.0	3.19	5.0	3/16	0.17	0.37
E	Compact 45° angle head 1/4" x 28 spindle	205 050 336 3	79.0	3.11	-	-	0.17	0.37
F	Compact 360° angle head Collet spindle	205 050 333 3	81.5	3.21	5.0	3/16	0.25	0.55
F	Compact 360° angle head 1/4" x 28 spindle	205 050 334 3	85.2	3.35	-	-	0.25	0.55

STANDARD ANGLE HEADS

G	Standard 90° angle head Collet spindle	205 050 338 3	75.7	2.98	6.4	1/4	0.23	0.51
G	Standard 90° angle head Collet spindle	205 050 353 3	75.7	2.98	8.0	5/16	0.23	0.51
G	Standard 90° angle head 1/4" x 28 spindle	205 050 339 3	75.7	2.98	-	-	0.24	0.53
G	Standard 90° angle head 5/16" x 24 spindle	205 050 340 3	75.7	2.98	-	-	0.23	0.51
H	Standard 45° angle head Collet spindle	615 398 702 5	90.7	3.57	6.4	1/4	0.23	0.51
H	Standard 45° angle head 1/4" x 28 spindle	615 398 704 5	87.9	3.46	-	-	0.23	0.51
J	Standard 360° angle head Collet spindle	205 050 341 3	96.8	3.81	6.4	1/4	0.32	0.70
J	Standard 360° angle head 1/4" x 28 spindle	205 050 342 3	94.5	3.72	-	-	0.32	0.70
J	Standard 360° angle head 5/16" x 24 spindle	205 050 343 3	94.5	3.72	-	-	0.32	0.70

STRAIGHT HEAD

K	Chuck mounting 3/8" x 24	205 050 510 3	80.0	3.15	6.0	1/2	0.25	0.55
---	--------------------------	---------------	------	------	-----	-----	------	------



Muti Drills - Accessories

Collet for Compact Angle Heads: C, D, E & F (30°, 45°, 90° & 360°)



COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.
ø 0.8mm	2152	ø 1.8mm	2252	ø 2.8mm	2352	ø 3.8mm	2452	ø 4.8mm	2552
ø 0.9mm	2162	ø 1.9mm	2262	ø 2.9mm	2362	ø 3.9mm	2462	ø 4.9mm	2562
ø 1.0mm	2172	ø 2.0mm	2272	ø 3.0mm	2372	ø 4.0mm	2472	ø 5.0mm	2572
ø 1.1mm	2182	ø 2.1mm	2282	ø 3.1mm	2382	ø 4.1mm	2482		
ø 1.2mm	2192	ø 2.2mm	2292	ø 3.2mm	2392	ø 4.2mm	2492	ø 1/16"	91442
ø 1.3mm	2202	ø 2.3mm	2302	ø 3.3mm	2402	ø 4.3mm	2502	ø 3/32"	91452
ø 1.4mm	2212	ø 2.4mm	2312	ø 3.4mm	2412	ø 4.4mm	2512	ø 1/8"	91462
ø 1.5mm	2222	ø 2.5mm	2322	ø 3.5mm	2422	ø 4.5mm	2522	ø 5/32"	91472
ø 1.6mm	2232	ø 2.6mm	2332	ø 3.6mm	2432	ø 4.6mm	2532	ø 11/64"	108172
ø 1.7mm	2242	ø 2.7mm	2342	ø 3.7mm	2442	ø 4.7mm	2542	ø 3/16"	91482

Collet for Standard Angle Heads: G, H & J (45°, 90°, 360°)



COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.
ø 1.6mm (1/16")	18922	ø 3.0mm	18992	ø 4.4mm (11/64")	19072	ø 5.8mm	19152
ø 1.8mm	18932	ø 3.2mm (1/8")	19002	ø 4.6mm	19082	ø 6.0mm (15/64")	19162
ø 2.0mm (5/64")	18942	ø 3.4mm	19022	ø 4.8mm (3/16")	19092	ø 6.2mm	19172
ø 2.2mm	18952	ø 3.6mm (9/64")	19032	ø 5.0mm	19102	ø 6.4mm (1/4")	19182
ø 2.4mm	18962	ø 3.8mm	19042	ø 5.2mm (13/64")	19122		
ø 2.6mm	18972	ø 4.0mm (5/32")	19052	ø 5.4mm	19132		
ø 2.8mm (7/64")	18982	ø 4.2mm	19062	ø 5.6mm (7/32")	19142		

Collet for Standard Angle Head: P.N. 205 050 353 3



COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.
ø 2.0mm	615 526 066 0	ø 3.5mm	615 526 070 0	ø 5.0mm	615 526 075 0	ø 7.0mm	615 526 083 0
ø 2.5mm	615 526 068 0	ø 4.0mm	615 526 071 0	ø 5.5mm	615 526 077 0	ø 7.5mm	615 526 084 0
ø 3.0mm	615 526 069 0	ø 4.5mm	615 526 073 0	ø 6.0mm	615 526 079 0	ø 8.0mm	615 526 088 0

ACCESSORIES INCLUDED



ITEM	PART NO.
With DR300	
1 Short lever	205 050 299 3
2 Safety lever	205 050 288 3
With Angle heads C, D, E & F	
3 Collet ø 4.8mm (3/16") capacity	2552
• Flat wrench	615 802 069 0
• Flat wrench	615 802 070 0
With Angle heads G & H	
4 Collet ø 6.4mm (1/4") capacity	19182
• Flat wrenches 10mm	82623



COLOUR IDENTIFICATION	DR300 / DR350	
	SPEED	PART NO.
	rpm	
Black	20000	205 049 447 3
Orange	5500	205 055 003 3
Purple	4500	205 055 004 3
Blue	3000	205 055 005 3

COLOUR IDENTIFICATION	DR300 / DR350	
	SPEED	PART NO.
	rpm	
Red	2000	205 055 006 3
Green	1000	205 055 007 3
Yellow	550	205 055 008 3
Grey	-	-

OPTIONAL ACCESSORIES



VACUUM KIT for Quick release 90° angle head drills	COMPACT ANGLE HEAD	STANDARD ANGLE HEAD
• All DR300-Txxxx-QR	Collet spindle +	205 147 989 4
	1/4" x 28 spindle +	205 147 991 4
	5/16" x 24 spindle +	205 147 991 4

OTHER OPTIONAL ACCESSORIES



ITEM	PART NO.
4 Start button with recess plugs	205 050 454 3
5 Side handle	205 049 446 3
• Keyed chuck C6 - 3/8"x24 (Cap. 0.5 to 6.5mm)	205 055 272 3
• Keyed chuck CR - 3/8"x24 (Cap. 0.5 to 8mm)	205 053 013 3
	268263



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Angle Drills

Compact Head - Max capacity: 5mm (3/16")
Collet & 1/4" x 28 Spindle



A
DR300-T...-T/S5-30 Series
300 W (0.4hp) / 1000 to 5500 rpm



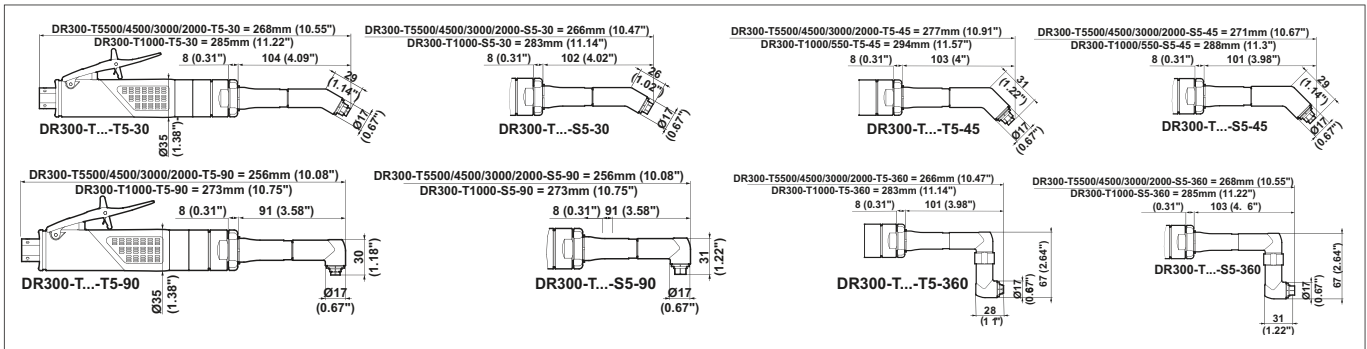
B
DR300-T...-T/S5-45 Series
300 W (0.4hp) / 550 to 5500 rpm



C
DR300-T...-T/S5-90 Series
300 W (0.4hp) / 1000 to 5500 rpm



D
DR300-T...-T/S5-360 Series
300 W (0.4hp) / 1000 to 5500 rpm



ACCESSORIES
see page 178

PIC REF	MODEL	PART NUMBER	MODEL	PART NUMBER	FREE SPEED		MOTOR POWER		WEIGHT		
					rpm		W	hp	kg	lb	
30° - COLLET SPINDLE					30° - 1/4" x 28 SPINDLE					Max. capacity: 5mm (3/16")	
A	DR300-T5500-T5-30	205 147 539 4	DR300-T5500-S5-30	205 147 540 4	5500	300	0.4	0.62	1.36		
A	DR300-T4500-T5-30	205 147 537 4	DR300-T4500-S5-30	205 147 538 4	4500	300	0.4	0.62	1.36		
A	DR300-T3000-T5-30	205 147 535 4	DR300-T3000-S5-30	205 147 536 4	3000	300	0.4	0.62	1.36		
A	DR300-T2000-T5-30	205 147 533 4	DR300-T2000-S5-30	205 147 534 4	2000	300	0.4	0.62	1.36		
A	DR300-T1000-T5-30	205 147 531 4	DR300-T1000-S5-30	205 147 532 4	1000	300	0.4	0.70	1.54		
45° - COLLET SPINDLE					45° - 1/4" x 28 SPINDLE					Max. capacity: 5mm (3/16")	
B	DR300-T5500-T5-45	205 147 580 4	DR300-T5500-S5-45	205 147 581 4	5500	300	0.4	0.68	1.50		
B	DR300-T4500-T5-45	205 147 577 4	DR300-T4500-S5-45	205 147 578 4	4500	300	0.4	0.68	1.50		
B	DR300-T3000-T5-45	205 147 574 4	DR300-T3000-S5-45	205 147 575 4	3000	300	0.4	0.68	1.50		
B	DR300-T2000-T5-45	205 147 571 4	DR300-T2000-S5-45	205 147 572 4	2000	300	0.4	0.68	1.50		
B	DR300-T1000-T5-45	205 147 568 4	DR300-T1000-S5-45	205 147 569 4	1000	300	0.4	0.76	1.67		
B	DR300-T550-T5-45	205 147 565 4	DR300-T550-S5-45	205 147 566 4	550	300	0.4	0.76	1.67		
90° - COLLET SPINDLE					90° - 1/4" x 28 SPINDLE					Max. capacity: 5mm (3/16")	
C	DR300-T5500-T5-90	205 147 551 4	DR300-T5500-S5-90	205 147 552 4	5500	300	0.4	0.62	1.36		
C	DR300-T4500-T5-90	205 147 549 4	DR300-T4500-S5-90	205 147 550 4	4500	300	0.4	0.62	1.36		
C	DR300-T3000-T5-90	205 147 547 4	DR300-T3000-S5-90	205 147 548 4	3000	300	0.4	0.62	1.36		
C	DR300-T2000-T5-90	205 147 545 4	DR300-T2000-S5-90	205 147 546 4	2000	300	0.4	0.62	1.36		
C	DR300-T1000-T5-90	205 147 543 4	DR300-T1000-S5-90	205 147 544 4	1000	300	0.4	0.70	1.54		
360° - COLLET SPINDLE					360° - 1/4" x 28 SPINDLE					Max. capacity: 5mm (3/16")	
D	DR300-T5500-T5-360	205 147 563 4	DR300-T5500-S5-360	205 147 564 4	5500	300	0.4	0.70	1.54		
D	DR300-T4500-T5-360	205 147 561 4	DR300-T4500-S5-360	205 147 562 4	4500	300	0.4	0.70	1.54		
D	DR300-T3000-T5-360	205 147 559 4	DR300-T3000-S5-360	205 147 560 4	3000	300	0.4	0.70	1.54		
D	DR300-T2000-T5-360	205 147 557 4	DR300-T2000-S5-360	205 147 558 4	2000	300	0.4	0.70	1.54		
D	DR300-T1000-T5-360	205 147 555 4	DR300-T1000-S5-360	205 147 556 4	1000	300	0.4	0.78	1.72		

All models: Air flow: 9.5 l/s (20 cfm)



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Angle Drills

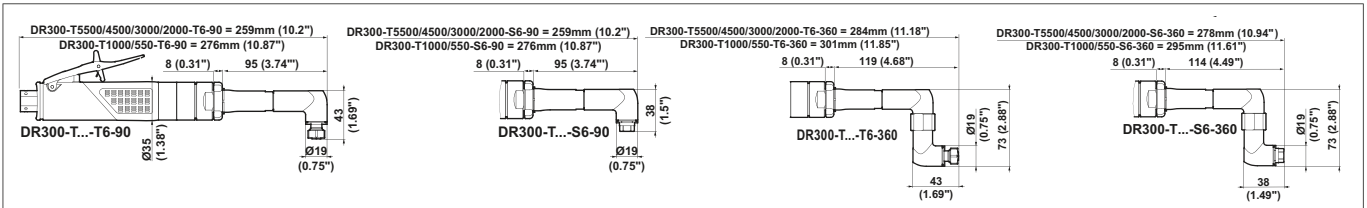
Standard Head - Max capacity: 6.4mm (1/4")
Collet & 1/4" x 28 Spindle



A
DR300-T...-T/S6-90 Series
300 W (0.4hp) / 550 to 5500 rpm



B
DR300-T...-T/S6-360 Series
300 W (0.4hp) / 550 to 5500 rpm



ACCESSORIES
see page 178

PIC REF	MODEL	PART NUMBER	MODEL	PART NUMBER	FREE SPEED			MOTOR POWER		WEIGHT	
					rpm	W	hp	kg	lb		
90° - COLLET SPINDLE					90° - 1/4" x 28 SPINDLE					Max. capacity: 6.4mm (1/4")	
A	DR300-T5500-T6-90	205 147 598 4	DR300-T5500-S6-90	205 147 599 4	5500	300	0.4	0.68	1.50		
A	DR300-T4500-T6-90	205 147 595 4	DR300-T4500-S6-90	205 147 596 4	4500	300	0.4	0.68	1.50		
A	DR300-T3000-T6-90	205 147 592 4	DR300-T3000-S6-90	205 147 593 4	3000	300	0.4	0.68	1.50		
A	DR300-T2000-T6-90	205 147 589 4	DR300-T2000-S6-90	205 147 590 4	2000	300	0.4	0.68	1.50		
A	DR300-T1000-T6-90	205 147 586 4	DR300-T1000-S6-90	205 147 587 4	1000	300	0.4	0.76	1.67		
A	DR300-T550-T6-90	205 147 583 4	DR300-T550-S6-90	205 147 584 4	550	300	0.4	0.76	1.67		
360° - COLLET SPINDLE					360° - 1/4" x 28 SPINDLE					Max. capacity: 6.4mm (1/4")	
B	DR300-T5500-T6-360	205 147 616 4	DR300-T5500-S6-360	205 147 617 4	5500	300	0.4	0.77	1.70		
B	DR300-T4500-T6-360	205 147 613 4	DR300-T4500-S6-360	205 147 614 4	4500	300	0.4	0.77	1.70		
B	DR300-T3000-T6-360	205 147 610 4	DR300-T3000-S6-360	205 147 611 4	3000	300	0.4	0.77	1.70		
B	DR300-T2000-T6-360	205 147 607 4	DR300-T2000-S6-360	205 147 608 4	2000	300	0.4	0.77	1.70		
B	DR300-T1000-T6-360	205 147 604 4	DR300-T1000-S6-360	205 147 605 4	1000	300	0.4	0.85	1.87		
B	DR300-T550-T6-360	205 147 601 4	DR300-T550-S6-360	205 147 602 4	550	300	0.4	0.85	1.87		

All models: Air flow: 9.5 l/s (20 cfm) - Air inlet 1/4" - Hose int. 6 mm (1/4")

Angle Drills

Heavy Duty 90° Angle Head



A
DR300-T...-THD-90 Series
300 W (0.4hp) / 900 & 2000 rpm



B
DR300-T...-SHD-90 Series
300 W (0.4hp) / 900 & 2000 rpm

ACCESSORIES
see page 178

PIC REF	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER		WEIGHT		LENGTH		AIR FLOW		AIR INLET
				W	hp	kg	lb	mm	in.	l/s	cfm.	in.
90° - COLLET SPINDLE Max capacity: 8mm (5/16")												
A	DR300-T2000-THD-90	615 176 043 0	2000	300	0.4	0.65	1.43	200	7.9	9.5	20	1/4
A	DR300-T900-THD-90	615 176 044 0	900	300	0.4	0.65	1.43	215	8.5	9.5	20	1/4
90° - KEY CHUCK Max capacity: 8mm (5/16")												
B	DR300-T2000-SHD-90	615 176 045 0	2000	300	0.4	0.77	1.50	200	7.9	9.5	20	1/4
B	DR300-T900-SHD-90	615 176 046 0	900	300	0.4	0.77	1.50	215	8.5	9.5	20	1/4

All models: Air flow: Hose



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Accessories for Angle Drills

Collet for Compact Angle Drills DR300-T5.. - Maximum capacity: 5 mm (3/16")



COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.
ø 0.8mm	2152	ø 1.8mm	2252	ø 2.8mm	2352	ø 3.8mm	2452	ø 4.8mm	2552
ø 0.9mm	2162	ø 1.9mm	2262	ø 2.9mm	2362	ø 3.9mm	2462	ø 4.9mm	2562
ø 1.0mm	2172	ø 2.0mm	2272	ø 3.0mm	2372	ø 4.0mm	2472	ø 5.0mm	2572
ø 1.1mm	2182	ø 2.1mm	2282	ø 3.1mm	2382	ø 4.1mm	2482	ø 1/16"	91442
ø 1.2mm	2192	ø 2.2mm	2292	ø 3.2mm	2392	ø 4.2mm	2492	ø 3/32"	91452
ø 1.3mm	2202	ø 2.3mm	2302	ø 3.3mm	2402	ø 4.3mm	2502	ø 1/8"	91462
ø 1.4mm	2212	ø 2.4mm	2312	ø 3.4mm	2412	ø 4.4mm	2512	ø 5/32"	91472
ø 1.5mm	2222	ø 2.5mm	2322	ø 3.5mm	2422	ø 4.5mm	2522	ø 11/64"	108172
ø 1.6mm	2232	ø 2.6mm	2332	ø 3.6mm	2432	ø 4.6mm	2532	ø 3/16"	91482
ø 1.7mm	2242	ø 2.7mm	2342	ø 3.7mm	2442	ø 4.7mm	2542		

Collet for Standard Angle Drills DR300-T6.. - Maximum capacity: 6.4 mm (1/4")



COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.
ø 1.6mm (1/16")	18922	ø 3.0mm	18992	ø 4.4mm (11/64")	19072	ø 5.8mm	19152
ø 1.8mm	18932	ø 3.2mm (1/8")	19002	ø 4.6mm	19082	ø 6.0mm (15/64")	19162
ø 2.0mm (5/64")	18942	ø 3.4mm	19022	ø 4.8mm (3/16")	19092	ø 6.2mm	19172
ø 2.2mm	18952	ø 3.6mm (9/64")	19032	ø 5.0mm	19102	ø 6.4mm (1/4")	19182
ø 2.4mm	18962	ø 3.8mm	19042	ø 5.2mm (13/64")	19122		
ø 2.6mm	18972	ø 4.0mm (5/32")	19052	ø 5.4mm	19132		
ø 2.8mm (7/64")	18982	ø 4.2mm	19062	ø 5.6mm (7/32")	19142		

Collet for Heavy Duty Angle Drills DR300-THD.. - Maximum capacity: 8 mm (5/16")



COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.	COLLET CAPACITY	PART NO.
ø 2.4mm (3/32")	2592	ø 4.0mm (5/32")	2672	ø 5.6mm	2752	ø 7.2mm	2832
ø 2.6mm	2602	ø 4.2mm	2682	ø 5.8mm	2762	ø 7.4mm	2842
ø 2.8mm (7/64")	2612	ø 4.4mm	2692	ø 6.0mm	2772	ø 7.6mm	2852
ø 3.0mm	2622	ø 4.6mm	2702	ø 6.2mm	2782	ø 7.8mm	2862
ø 3.2mm (1/8")	2632	ø 4.8mm (3/16")	2712	ø 6.4 (1/4")	2792	ø 8.0mm (5/16")	2872
ø 3.4mm	2642	ø 5.0mm	2722	ø 6.6mm	2802		
ø 3.6mm (9/64")	2652	ø 5.2mm	2732	ø 6.8mm	2812		
ø 3.8mm	2662	ø 5.4mm	2742	ø 7.0mm	2822		

ACCESSORIES INCLUDED



ITEM	COMPACT DR300-T5..	STANDARD DR300-T6..	COMPACT DR300-S5	STANDARD DR300-S6	HEAVY DUTY DR300-THD	DR300-SHD
	COLLET SPINDLE		1/4" X 28 SPINDLE		COLLET	CHUCK
1 ø 4.8mm (3/16") capacity collet	2552					
2 ø 6.4mm (1/4") capacity collet		19182				
3 ø 8mm (5/16") capacity collet					2872	
4 Chuck threaded 3/8" UNF - cap 8mm (5/16") with key						205 053 013 3
• Chuck key						410213
5 Safety lever	205 050 288 3	205 050 288 3	205 050 288 3	205 050 288 3	205 050 288 3	205 050 288 3
• Flat wrench 8-9.5mm	268263					
• Flat wrenches 10mm		82623				

OPTIONAL ACCESSORIES



VACUUM KIT for 90° angle head drills	COMPACT ANGLE HEAD	STANDARD ANGLE HEAD
• All DR300-T...-T5/S5-90	+	205 147 989 4
• All DR300-T...-T6/S6-90	+	205 147 991 4

OTHER OPTIONAL ACCESSORIES



ITEM	DR300-T5.. DR300-S5..	DR300-T6.. DR300-S6..	DR300-THD..	DR300-SHD..
6 Inlet button with lever recess plugs	205 050 454 3	205 050 454 3	205 050 454 3	
7 Short lever	205 050 288 3	205 050 288 3	205 050 288 3	205 050 288 3
8 Side handle				205 049 446 3



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■ How to make the right selection?

  <p>1 Material drilled</p>	 <p>2 Diameter</p>	 <p>3 Tool power & speed</p>	 <p>4 Accessory for each application</p>
--	--	---	--

■ Tool range

Our range covers a wide range of applications to answer all your requirements

 <p>DR350</p>	 <p>DR500</p>	 <p>DR750</p>
--	--	--

Pistol Grip Drills



A

DR350 Series
350 W (0.5hp) / 550 to 20000 rpm



B

DR500 Series
500 W (0.68hp) / 400 to 18500 rpm



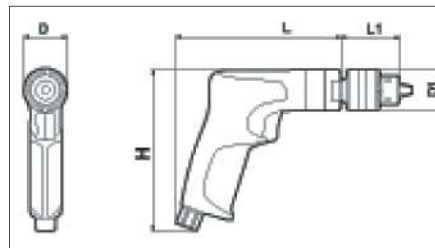
C

DR750 Series
750 W (1hp) / 400 to 20000 rpm



D

Color rings to identify your tools speed



Model	D		H	
	mm	in.	mm	in.
DR350-P..	35	1.38	135	5.3
DR500-P	36.5	1.44	135	5.3
DR750-P..	47	1.85	146	5.75

PIC REF	MODEL	PART NUMBER	MODEL	PART NUMBER	FREE SPEED	MOTOR POWER		STALL TORQUE		WEIGHT W/H CHUCK		LENGHT L	
						rpm	W	hp	Nm	in.lb	kg	lb	mm
DR350 - KEY CHUCK					DR350 - WITHOUT CHUCK								
A	DR350-P20000-C8	205 147 252 4	DR350-P20000*	205 147 359 4	20000	350	0.5	0.6	5.3	0.49	1.1	120	4.72
A	DR350-P5500-C8	205 147 250 4	DR350-P5500*	205 147 358 4	5500	350	0.5	2.3	20.4	0.49	1.1	136	5.35
A	DR350-P4500-C8	205 147 382 4	DR350-P4500*	205 147 384 4	4500	350	0.5	2.7	23.9	0.49	1.1	136	5.35
A	DR350-P3000-C8	205 147 248 4	DR350-P3000*	205 147 357 4	3000	350	0.5	4.0	35.4	0.49	1.1	136	5.35
A	DR350-P2000-C8	205 147 246 4	DR350-P2000*	205 147 356 4	2000	350	0.5	5.4	47.8	0.49	1.1	136	5.35
A	DR350-P1000-C10	205 147 244 4	DR350-P1000*	205 147 355 4	1000	350	0.5	12.7	112.4	0.57	1.3	154	6.06
A	DR350-P550-C10	205 147 242 4	DR350-P550*	205 147 354 4	550	350	0.5	18.6	164.6	0.57	1.3	154	6.06

All models DR350: Air Flow: 9.5 l/s (20 cfm) - Air Inlet 1/4" - Hose int. 6 mm (1/4") / * Chuck spindle 3/8" x 24 UNF

DR500 - KEY CHUCK					DR500 - WITHOUT CHUCK								
B	DR500-P18500-C8	205 147 676 4	DR500-P18500*	205 147 678 4	18500	500	0.68	1.0	8.85	0.56	1.2	141	5.55
B	DR500-P5800-C8	205 147 673 4	DR500-P5800*	205 147 675 4	5800	500	0.68	3.1	27.4	0.56	1.2	141	5.55
B	DR500-P4300-C8	205 147 670 4	DR500-P4300*	205 147 672 4	4300	500	0.68	4.2	37.2	0.56	1.2	141	5.55
B	DR500-P2700-C8	205 147 667 4	DR500-P2700*	205 147 669 4	2700	500	0.68	6.9	61.1	0.56	1.2	141	5.55
B	DR500-P1800-C10	205 147 664 4	DR500-P1800*	205 147 666 4	1800	500	0.68	9.9	87.6	0.64	1.4	155	6.1
B	DR500-P1400-C10	205 147 661 4	DR500-P1400*	205 147 663 4	1400	500	0.68	13.4	118.6	0.64	1.4	155	6.1
B	DR500-P1000-C10	205 147 658 4	DR500-P1000*	205 147 660 4	1000	500	0.68	18.0	159	0.64	1.4	155	6.1
B	DR500-P600-C13	205 147 655 4	DR500-P600*	205 147 657 4	600	500	0.68	28.7	254	0.64	1.4	155	6.1
B	DR500-P400-C13	205 147 652 4	DR500-P400*	205 147 654 4	400	500	0.68	46.0	407	0.64	1.4	155	6.1

All models DR500: Air Flow: 14 l/s (30 cfm) - Air inlet: 1/4" - Hose int. 10 mm (3/8") / * Chuck spindle 3/8" x 24 UNF

DR750 - KEY CHUCK					DR750 - WITHOUT CHUCK								
C	DR750-P20000-C8	205 146 659 4	DR750-P20000*	205 147 458 4	20000	750	1	1.6	14.2	0.9	2.0	152	5.98
C	DR750-P6000-C8	1465124	DR750-P6000*	205 147 417 4	6000	750	1	5.3	46.9	0.9	2.0	152	5.98
C	DR750-P4100-C8	1465114	DR750-P4100*	205 147 456 4	4100	750	1	7.1	62.8	0.9	2.0	152	5.98
C	DR750-P3300-C10	1465104	DR750-P3300*	205 147 455 4	3300	750	1	9.6	85.0	0.9	2.0	152	5.98
C	DR750-P2700-C10	1465094	DR750-P2700*	205 147 416 4	2700	750	1	11.1	98.2	0.9	2.0	152	5.98
C	DR750-P1300-C10	1465084	DR750-P1300*	205 147 415 4	1300	750	1	23.9	211	1.15	2.5	184	7.24
C	DR750-P750-C13	1465074	DR750-P750**	205 147 452 4	750	750	1	41.0	363	1.15	2.5	184	7.24
C	DR750-P400-C13	205 146 658 4	DR750-P400**	205 147 451 4	400	750	1	55.0	487	1.15	2.5	184	7.24

DR750 - JACOBS TAPER 1 SPINDLE - WITHOUT CHUCK

D	DR750-P20000-JT1	205 146 667 4	20000	750	1	1.6	14.2	0.9	2.0	152	5.98
D	DR750-P6000-JT1	205 146 666 4	6000	750	1	5.3	46.9	0.9	2.0	152	5.98
D	DR750-P3300-JT1	205 146 664 4	3300	750	1	9.6	85.0	0.9	2.0	152	5.98
D	DR750-P2700-JT1	205 146 663 4	2700	750	1	11.1	98.2	0.9	2.0	152	5.98
D	DR750-P1300-JT1	205 146 662 4	1300	750	1	23.9	211	1.15	2.5	184	7.24
D	DR750-P750-JT1	205 146 661 4	750	750	1	41.0	363	1.15	2.5	184	7.24
D	DR750-P400-JT1	205 146 660 4	400	750	1	55.0	487	1.15	2.5	184	7.24

All models DR750: Air Flow: 14 l/s

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Accessories

CHUCK SELECTION GUIDE FOR DR300-T... / DR350-P... / DR500-P... / DR750-P.

CHUCK PART NO.	CHUCK MOUNT	CHUCK CAPACITY		DIMENSIONS				WEIGHT		PART NO. KEY	DR3...P...C8	DR3...P...C10	DR500-P...C13	DR750-P.
		mm	in.	D1		L1		g	lb		DR500-P...C8	DR500-P...C10	DR750-P...C13	JT1
205 055 272 3	3/8"-24	0.5 - 6.5	1/4	29.3	1.15	42.5	1.67	121	0.27	29182				
205 053 013 3	3/8"-24	0.5 - 8	5/16	29.3	1.15	42.5	1.67	120	0.26	410213				
205 052 954 3	3/8"-24	1 - 10	3/8	37	1.46	49.5	1.95	204	0.45	29232				
473113	3/8"-24	1.5 - 13	1/2	42	1.67	59	2.32	371	0.82	895 101 145 3				
29142	1/2"-20	1.5 - 13	1/2	42	1.67	59	2.32	362	0.80	895 101 145 3				
29492	1JT	0.5 - 6.5	1/4	29.3	1.15	42.5	1.67	112	0.25	29182				
29042	1JT	0.8 - 10	3/8	34.5	1.36	48	1.89	231	0.51	29232				
34752	2JT	1 - 10	3/8	42	1.67	61.5	2.4	386	0.85	895 101 145 3				
34332	2JT	1 - 13	1/2	50	1.97	67.5	2.66	900	1.98					
473433	3/8"-24	0 - 8	5/16	32	1.26	61.5	2.4	285	0.63					
473423	3/8"-24	0.5 - 10	3/8	35.8	1.4	66	2.6	390	0.86					
205 047 819 3	3/8"-24	1 - 13	1/2	40	1.58	76.3	3	559	1.23					
205 056 060 3	1/2"-20	1 - 13	1/2	40	1.58	76.3	3	548	1.21					
524.09	1JT	0 - 6.5	1/4	32	1.26	59.5	2.34	284	0.62					
524.15	1JT	0.5 - 10	3/8	35.8	1.4	66	2.6	390	0.86					
524.10	2JT	0.5 - 10	3/8	40	1.58	87.5	3.4	636	1.4					
524.16	2JT	1 - 13	1/2	46	1.8	91	3.6	904	1.99					

INCLUDED WITH THE TOOL
 OPTIONAL ACCESSORIES

ACCESSORIES INCLUDED		DR350-P...C8 DR500-P...C8 DR750-P...C8.	DR350-P...C10 DR500-P...C10 DR750-P...C10	DR500-P...C13 DR750-P...C13
ITEM				
1	Chuck guard for DR350-P...C	205 049 275 3		
1	Chuck guard for DR500-P...C	205 049 486 3		
1	Chuck guard for DR750-P...C8 & C10	473143	473143	
2	Side handle for DR350-P550 & P1000	205 049 446 3	205 049 446 3	
2	Side handle for DR500-P400 to P1800		205 053 102 3	205 053 102 3
2	Side handle for DR750-P	473173	473173	473173
3	Suspension bail for DR750-P	473153	473153	473153

COLOUR IDENTIFICATION	DR350	
	SPEED	PART NO.
	rpm	
Black	20000	205 049 447 3
Orange	5500	205 055 003 3
Purple	4500	205 055 004 3
Blue	3000	205 055 005 3

COLOUR IDENTIFICATION	DR350	
	SPEED	PART NO.
	rpm	
Red	2000	205 055 006 3
Green	1000	205 055 007 3
Yellow	550	205 055 008 3

OPTIONAL ACCESSORIES			
VACUUM KIT for DR350 & 500		DR350	DR500
• Shroud ø 20mm (for C6 or C8 type)	+	205 147 985 4	205 147 987 4
• Shroud ø 40mm (for C6 or C8 type)	+	205 147 986 4	205 147 988 4

OTHER OPTIONAL ACCESSORIES				
ITEM	DR350-P...	DR500-P...	DR750-P...	DR750-P...JT1 MOUNT
• Chuck guard for DR750-P...JT1 with chuck key - cap 6.5mm (1/4")				473143
2 Side handle for DR350 / 500	205 049 446 3	205 053 102 3		
• Adaptor - JT1 female to JT2 male (for DR750-P...JT1)				12243
				15533



Straight Grip Drills



A

DR300 Series
300 W (0.4hp) / 550 to 20000 rpm

PIC REF	MODEL	PART NUMBER	MODEL	PART NUMBER	FREE SPEED		MOTOR POWER		STALL TORQUE		WEIGHT W/H CHUCK		LENGHT	
					rpm	W	hp	Nm	in.lb	kg	lb	mm	in.	
DR300 - KEY CHUCK					DR300 - WITHOUT CHUCK									
A	DR300-T20000-C8	205 147 496 4	DR300-T20000	205 147 495 4	20000	300	0.4	0.6	5.3	0.34	0.75	145	5.71	
A	DR300-T5500-C8	205 147 493 4	DR300-T5500	205 147 492 4	5500	300	0.4	2.3	20.4	0.47	1.04	159	6.26	
A	DR300-T4500-C8	205 147 490 4	DR300-T4500	205 147 489 4	4500	300	0.4	2.7	23.9	0.47	1.04	159	6.26	
A	DR300-T3000-C8	205 147 487 4	DR300-T3000	205 147 486 4	3000	300	0.4	4.0	35.4	0.47	1.04	159	6.26	
A	DR300-T2000-C8	205 147 484 4	DR300-T2000	205 147 483 4	2000	300	0.4	5.4	47.8	0.47	1.04	159	6.26	
A	DR300-T1000-C10	205 147 481 4	DR300-T1000	205 147 480 4	1000	300	0.4	12.7	112.4	0.52	1.15	176	6.93	
A	DR300-T550-C10	205 147 478 4	DR300-T550	205 147 477 4	550	300	0.4	18.6	164.6	0.52	1.15	176	6.93	

All models DR300: Air Flow: 9.5 l/s (20 cfm) - Air Inlet 1/4" - Hose int. 6 mm (1/4") / Chuck spindle 3/8" x 24 UNF



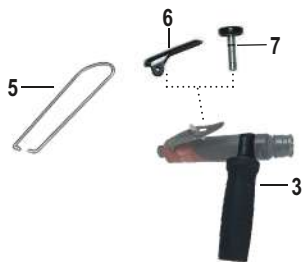
ACCESSORIES INCLUDED

ITEM	DR300-P...C8	DR300-P...C10
1 Keyed chuck 3/8" UNF - cap 8mm (5/16") (with key)	205 053 013 3	-
1 Keyed chuck 3/8" UNF - cap 10mm (3/8") (with key)	-	205 052 954 3
• Chuck key	410213	29232
2 Chuck guard for DR300-P...C8	615 049 275 3	-
3 Side handle for DR300-T...C10	-	205 049 446 3
4 Safety lever for DR300-T...	205 050 288 3	205 050 288 3
• Exhaust hose for DR300-T...	205 051 259 3	205 051 259 3



COLOUR IDENTIFICATION	DR300	
	SPEED rpm	PART NO.
Black	20000	205 049 447 3
Orange	5500	205 055 003 3
Purple	4500	205 055 004 3
Blue	3000	205 055 005 3

COLOUR IDENTIFICATION	DR300	
	SPEED rpm	PART NO.
Red	2000	205 055 006 3
Green	1000	205 055 007 3
Yellow	550	205 055 008 3



OPTIONAL ACCESSORIES

ITEM	DR300-T...C8	DR300-T...C10
3 Side handle for DR300-T...C8	205 049 446 3	-
5 Suspension Bail	39433	39433
6 Short lever	205 050 299 3	205 050 299 3
7 Inlet button with lever recess plugs	205 050 454 3	205 050 454 3



Vacuum & Color Identification

VACUUM



VACUUMS

- Efficient Vacuum system to collect harmful drilling dust & burrs.
- Easy adaptation to standard tool.
- Easy to use.
- Available both for DR350 & DR500.
- 2 shroud sizes 20 & 40mm.



VACUUM KIT		DR350	DR500
• Shroud Ø 20mm	+	205 147 985 4	205 147 987 4
• Shroud Ø 40mm	+	205 147 986 4	205 147 988 4

COMPACT ANGLE DRILLS	STANDARD ANGLE DRILLS
205 147 989 4	205 147 991 4

COLOUR IDENTIFICATION

COLOUR IDENTIFICATION	DR300 / DR350	
	SPEED rpm	PART NO.
Black	20000	205 049 447 3
Orange	5500	205 055 003 3
Purple	4500	205 055 004 3
Blue	3000	205 055 005 3
Red	2000	205 055 006 3
Green	1000	205 055 007 3
Yellow	550	205 055 008 3
Grey		



COLOR RINGS

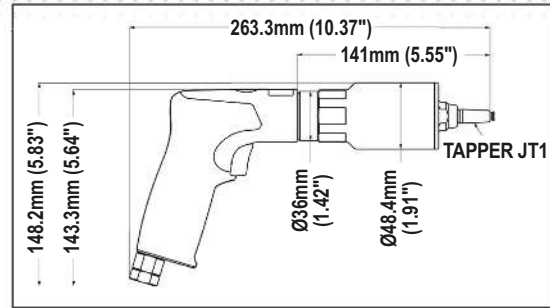
easy identification your tool speed

Tappers



A

T500 Series
0.5kW (0.68hp) / 400 & 600 rpm



PIC REF	MODEL	PART NUMBER	FREE SPEED	REVERSE SPEED	MOTOR POWER		MAX. TAPPING TORQUE		WEIGHT		LENGTH		AIR FLOW		AIR INLET
					rpm	rpm	kW	hp	STEEL	ALUMINIUM	kg	lb	mm	in.	

TAPPERS

A	T500-P400	205 147 995 4	400	800	0.5	0.68	M10	M12	0.64	1.4	263	10.35	14	30	1/4
A	T500-P600	205 147 996 4	600	1200	0.5	0.86	M10	M12	0.64	1.4	263	10.35	14	30	1/4

All models T500-P: Hose int. 10 mm (3/8")



OPTIONAL ACCESSORIES

ITEM		PART NO.
1	Keyed chuck (1JT) - 0.8 to 10mm (3/8") (with key) T500-P400	29042
1	Keyed chuck (1JT) - 0.5 to 6.5mm (1/4") (with key) T500-P600	29492
	• Chuck key - T500-P400	29232
	• Chuck key - T500-P600	410213
2	Precision collet tap holder (including collet cap. M3 to M8)	29452
	• Collet capacity M3 to M7 (1/8" to 9/32")	29482
	• Collet capacity M4 to M8 (5/32" to 5/16")	29472
3	Collet capacity M6 to M12 (15/64" to 15/32")	97982
4	Tap Holder (1 JT)	69922
5	Quick Release Chuck (1 JT)	16852
6	Quick Release Tap Holder (1 JT)	69872

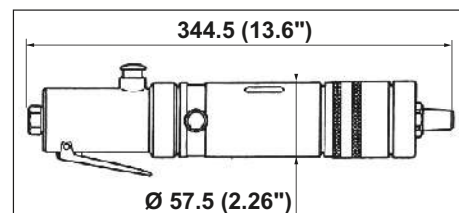
Collets for Tap Holders:

TAP SIZE		BA	SHANK DIA.		PART NO
mm	in.		mm		
M2.2 & M2.5		6 & 8	2.8		2612
M3	1/8	5	3.2		2632
M3.5		4	3.6		2652
M4			4.0		2672
M4.5		3	4.5		2702
M5	3/16	2	5.0		2722
M5.5	7/32	1	5.6		2752
M6	1/4	0	6.3		2792
M7	9/32		7.1		2832
M8 & M11	5/16 & 7/16		8.0		2872
M9 & M12	1/2		9.0		69882
M10	3/8		10.0		69892
*Wrench for Tap Holder collet nut					29443
*2mm A/F hexagon key for Tap Holder grub screws					206773



A

2H16 Series
Variable speed setting
90 to 500 rpm - 47 to 240 Nm



PIC REF	MODEL	PART NUMBER	LOW SPEED SETTING	HIGH SPEED SETTING	MAX. TAPPING TORQUE		WEIGHT		AIR FLOW		AIR INLET
					LOW SPEED	HIGH SPEED	kg	lb	l/s	cfm	

TAPPERS

A	2H16-L-160/500-B18	1434264	130	500	140	103	47	34.7	3.1	6.8	15.6	33	3/8
A	2H16-L-90/250-B18	1434244	90	250	90	66.4	29	26.4	2.4	6.8	15.6	33	3/8

All models 2H16-L: Hose int. 10



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A

C27 Serie
150 rpm
Collet size 6,4mm (1/4")

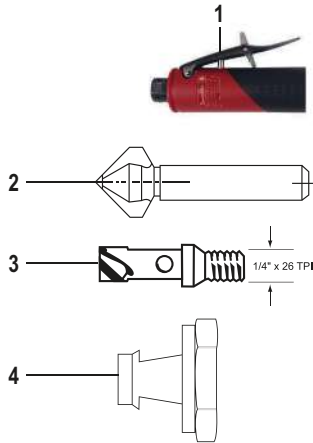


B

RS500 Serie
18500 rpm

PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET SIZE		MAXIMUM CUTTER DIA.		WEIGHT		LENGTH		AIR FLOW		AIR INLET	HOSE INT. Ø	
				rpm	mm	mm	in.	kg	lb	mm	in.	l/s	cfm	in.	mm	in.
HOLE DEBURRING TOOLS – LEVER START (integral speed regulator)																
A	C27-LX-1500	615 176 047 0	150	6.4 (1/4")*	–	–	0.59	1.31	235	9.25	9.5	20	1/4	6	1/4	
RIVET SHAVER (for accessory 1/4"-26 WHIT)																
B	RS500-P18500	205 148 130 4	18500	–	14.3	9/16	1.2	2.6	212	8.35	14	30	1/4	10	3/8	
RIVET SHAVER (for accessory 1/4"-28 UNF)																
B	RS500-P18500	205 148 129 4	18500	–	14.3	9/16	1.2	2.6	212	8.35	14	30	1/4	10	3/8	

*: If speed adjustment is needed, you can do it with flow regulator PN LC121737



ACCESSORIES INCLUDED

ITEM	C27-LX	RS500
• ø 6.4mm (1/4") capacity collet	615 526 059 0	
1 Safety lever	205 050 288 3	
• Exhaust hose (with clamp ring)	205 051 259 3	
2 Cutter (90° point) – 10mm dia	91572	
3 Cutter – carbide tipped (11.1mm 7/16" dia)		70602
4 Cutter Guard		18822
• Suspension Bail	39433	
• Exhaust hose	222453	
• Exhaust Hose Clip	235203	
• Collet Nut Wrench	18583	
• Collet Spindle Wrench	159003	15533
• Cutter Guard Wrench		38873
• Bit stop	322053	

OPTIONAL ACCESSORIES

ITEM	RS500
3 Cutter – carbide tipped ø6.4mm (ø1/4")	70572
3 Cutter – carbide tipped ø7.9mm (ø5/16")	70582
3 Cutter – carbide tipped ø9.5mm (ø3/8")	70592
3 Cutter – carbide tipped ø12.7mm (ø1/2")	70622
4 Cutter Guard ø6.4mm (ø1/4")	18782
4 Cutter Guard ø7.9mm (ø5/16")	18792
4 Cutter Guard ø9.5mm (ø3/8")	18802
4 Cutter Guard ø12.7mm (ø1/2")	18832
4 Cutter Guard ø14.3mm (ø9/16")	18842

Rack Feed Drills

- The Rack Feed Drill is a semi-fixture (nose mounted) portable drilling unit, utilising a manual feed through an integral "rack and pinion" mechanism to accommodate the approach drilling and retract cycles. This provides the user with complete control of the feed rate during drilling and allows the user to "feel" the feed rate required. Versatile and flexible, especially when drilling laminates and sandwich materials.
- RFD is suitable for drilling/reaming various materials used in the Aerospace industries e.g. Inconel, Titanium, Steel, Aluminium and Composites.



■ **RFD-100**
Speed range 60 to 2800 rpm
102mm (4") adjustable stroke
13mm (1/2") chuck capacity

■ **RFDT-125**
Speed range 60 to 800 rpm
127mm (5") adjustable stroke
No. 2 Morse taper spindle



How to select your tool?

- 1 Select material
- 2 Select hole size
- 3 Select tool

RFD Selection

DRILL Ø	TOOL TYPE - RPM			
	Inconel	1 Titanium	Mild Steel	Aluminium
3mm - 1/8"	RFD(T)-330/500	RFD(T)-500	RFD-2800	RFD-2800
5mm - 3/16"	RFD(T)-140/330	RFD(T)-330/500	RFD-1850	RFD-2800
6mm - 1/4"	RFD(T)-140	RFD(T)-140/330	RFD(T)-800	RFD-1850
8mm - 5/16"	RFD(T)-140	RFD(T)-140/330	RFD(T)-800	RFD(T)-800
10mm - 3/8" 2	RFD(T)-85/140	RFD(T)-140 3	RFD(T)-800	RFD(T)-800
13mm - 1/2"	RFD(T)-60/85	RFD(T)-85/140	RFD(T)-500	RFD(T)-800
16mm - 5/8"		RFD(T)-85/140	RFD(T)-330	RFD(T)-800
19mm - 3/4"		RFD(T)-60/85	RFD(T)-85/140	RFD(T)-330/500
25mm - 1"			RFD(T)-60/85	RFD(T)-140/330

Use selection data as a guide only

MODEL	PART NUMBER	FREE SPEED	MAX STROKE		OUTPUT SPINDLE	CHUCK SPINDLE	LENGTH		WEIGHT		AIR FLOW		AIR INLET
			mm	in.			mm	in.	kg	lb	l/s	cfm	
RFD													
RFD-100-2800	681214	2800	102	4		1/2-20 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFD-100-1850	681394	1850	102	4		1/2-20 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFD-100-800	680084	800	102	4	Chuck	5/8-16 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFD-100-500	680164	500	102	4	13mm	5/8-16 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFD-100-330	680244	330	102	4	(1/2")	5/8-16 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFD-100-140	1457364	140	102	4	capacity	5/8-16 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFD-100-85	1457374	85	102	4		5/8-16 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFD-100-60	1457384	60	102	4		5/8-16 UNF	652	25.67	3.9	8.6	11.8	25	1/4
RFDT													
RFDT-125-800	1445654	800	127	5			764	30.08	5.5	12.1	11.8	25	1/4
RFDT-125-500	1445664	500	127	5	No. 2		764	30.08	5.5	12.1	11.8	25	1/4
RFDT-125-330	1445674	330	127	5	Morse		764	30.08	5.5	12.1	11.8	25	1/4
RFDT-125-140	1445504	140	127	5	Taper		764	30.08	5.5	12.1	11.8	25	1/4
RFDT-125-85	1445514	85	127	5			764	30.08	5.5	12.1	11.8	25	1/4
RFDT-125-60	1445524	60	127	5			764	30.08	5.5	12.1	11.8	25	1/4

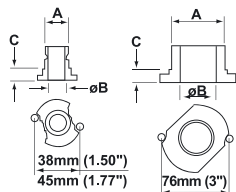
All models: Hose int. 10 mm (3/8")

ACCESSORIES INCLUDED

	PART NUMBER	
	RFD	RFDT
• Chuck with key capacity 13mm (1/2")	29142	-
• Extended Nose (1" x 14 LH nose thread)	251043	-
• Bayonet Plate – 45mm (1.77") centres	251063	-
• Bayonet Plate – 76mm (2.99") centres	-	35223

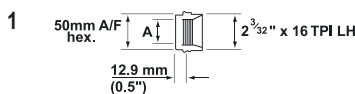
OPTIONAL ACCESSORIES

For more details on the following Part Numbers, please contact your local Desoutter representative



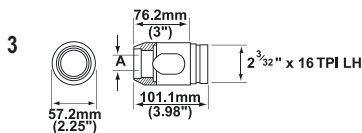
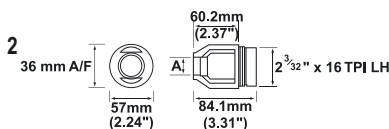
Bayonet Plates

	A	Ø B	C
Locating centres – 38mm (1.50")	3/4" x 16 (LH)	14.2mm (0.559")	9.5mm (3/8")
Locating centres – 45mm (1.77")	1" x 14 (LH)	19.05mm (3/4")	9.5mm (3/8")
Locating centres – 45mm (1.77")	11/8" x 20 (LH)	19.05mm (3/4")	9.5mm (3/8")
Locating centres – 76mm (2.99")	23/32" x 16 (LH)	38.1mm (1.150")	12.7mm (1/2")



Nose Attachments

NOSE TYPE	TO SUIT BAYONET PLATE CENTRES	THREAD 'A'
1	38mm (1.50")	3/4" x 16 (LH)
2	38mm (1.50")	3/4" x 16 (LH)
2	45mm (1.77")	1" x 14 (LH)
3	-	1-1/4" x 12 (LH)
3	-	1-1/4" x 12 (LH)
3	-	2" x 16 (LH)

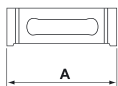


Extension Tubes

NOMINAL STROKE AVAILABLE TO DRILL	LENGTH 'A'
• 80mm (3.15")	170mm (6.69")

Jig Plates

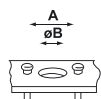
CENTRE 'A'
38mm (1.50")
45mm (1.77")



Drill bushes

ATTACHMENT	'Ø B'
ø 14.2mm	Ø 10 to 14mm
ø 19.05mm	Ø 10 to 18mm
ø 38.01mm	Ø 22 to 35mm

For dimension 'ØB' please ask for details of our range of drill bushes







Compression Tools

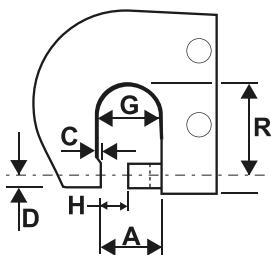


SQUEEZERS

- Wide range of Alligator Jaws & C-Yokes tools.
- Excellent power-to-weight ratio.
- Fast and slow approach.
- Robust and reliable design.

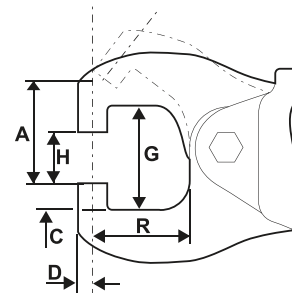
How to select the right tool?

 <p>1 Rivet</p> <p>Material Diameter</p>	 <p>2 Application</p> <p>Accessibility Customer specification</p>	 <p>3 Select tool</p> <p>Power required (p.189) C-Yoke or Alligator Gap & Reach figures</p>	 <p>4 Select Rivet set & shims</p> <p>Rivet set shank Rivet set type Rivet set length</p>
--	--	---	---



Jaw and Yoke Terminology:
(rivet sets are not in place in this illustration)

- A Throat gap
- C Anvil work clearance
- D Lower offset
- G Total yoke gap
- H Closed height
- R Reach



C YOKE MODEL	A		C		D		G		H		R	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
CP0214CELEL	32	1-1/4	-	-	5	3/16	32	1-1/4	17.5	11/16	38	1-1/2
CP0214FALEL	32	1-1/4	-	-	5	3/16	32	1-1/4	17.5	11/16	38	1-1/2
CP0214SETEL	32	1-1/4	-	-	6.4	1/4	32	1-1/4	17.5	11/16	38	1-1/2
CP0214KETEL	32	1-1/4	-	-	6.4	1/4	32	1-1/4	17.5	11/16	38	1-1/2
CP0351CUDEL	39	1-17/32	-	-	5.5	7/32	29	1-5/32	20	25/32	54	2-1/8
CP0351FUDEL	39	1-17/32	-	-	5.5	7/32	29	1-5/32	20	25/32	54	2-1/8
CP0341CUDEL	57	2-1/4	3	1/8	9	11/32	70	2-3/4	25	1	54	2-1/8
CP0214FAXEL	44	1-3/4	-	-	5	3/16	44	1-3/4	17.5	11/16	50.8	2.5

ALLIGATOR MODEL	A		D		G		H		R	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
CP0214ANGEL	54	2-1/8	5.5	7/32	54	2-1/8	22	7/8	76	3
CP0214ENGEL	54	2-1/8	5.5	7/32	54	2-1/8	22	7/8	76	3
CP0214ANFEL	48	1-7/8	5.5	7/32	54	2-1/8	22	7/8	57	2-1/4
CP0214ENFEL	48	1-7/8	5.5	7/32	54	2-1/8	22	7/8	57	2-1/4
CP0214ANBEL	38	1-1/2	5.5	7/32	41	1-5/8	22	7/8	38	1-1/2
CP0214ENBEL	38	1-1/2	5.5	7/32	41	1-5/8	22	7/8	38	1-1/2
CP0351ANSVEL	62	2-7/16	5.5	7/32	56	2-3/16	19	3/4	232	9-1/8
CP0351ESVEL	62	2-7/16	5.5	7/32	56	2-3/16	19	3/4	232	9-1/8
CP0351ESREL	81	3-3/16	5.5	7/32	51	2	38	1-1/2	178	7
CP0351ASKEL	57	2-1/4	5.5	7/32	41	1-5/8	22	7/8	127	5
CP0351ESKEL	57	2-1/4	5.5	7/32	41	1-5/8	22	7/8	127	5
CP0351ASPEL	54	2-1/8	5.5	7/32	41	1-5/8	22	7/8	73	2-7/8
CP0351ESPEL	54	2-1/8	5.5	7/32	41	1-5/8	22	7/8	73	2-7/8



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A



B



C



D



E

CP0214

CP0351

CP0341 - Pneumatic TM --> Full power through the full stroke

PIC REF	MODEL	PART NUMBER	CAPACITY				MAX FORCE		MOVING PLUNGER				STANDARD YOKE DIMENSIONS				LENGTH		WEIGHT	
			LIGHT		HARD		(90 PSI/ 6.2 BAR)		MAX TRAVEL		FINAL PART OF STROKE AT MAX. FORCE		REACH R		CLOSED HEIGHT H		mm	in.	kg	lb
			mm	in.	mm	in.	kN	lb	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	kg	lb

C-YOKE (single cylinder)

A	CP0214CELEL*	T012344	3.2	1/8	2.4	3/32	13.35	3,000	14.3	9/16	1.3	0.050	38.1	1-1/2	17.5	11/16	262	10.3	2.0	4.41
	CP0214CENEL	T018677	Same power unit as above without yoke																	
A	CP0214SETEL**	T023474	3.2	1/8	2.4	3/32	13.35	3,000	14.3	9/16	1.3	0.050	38.1	1-1/2	17.5	11/16	262	10.3	2.0	4.41
B	CP0351CUDEL*	T008955	4.8	3/16	4.0	5/32	26.70	6,000	14.3	9/16	3.2	0.125	54	2-1/8	19.8	25/32	445	17.5	5.7	12.6
	CP0351CUNEL	T007772	Same power unit as above without yoke																	

C-YOKE (tandem cylinder)

A	CP0214FALEL*	T013152	4.8	3/16	4.0	5/32	26.70	6,000	14.3	9/16	1.6	0.063	38.1	1-1/2	17.5	11/16	356	14	2.5	5.5
A	CP0214FAXEL*	T022528	4.8	3/16	4.0	5/32	26.70	6,000	14.3	9/16	1.6	0.063	50.8	2.5	17.5	11/16	366	14.4	2.6	5.7
	CP0214FANEL	T018430	Same power unit as above without yoke																	
A	CP0214KETEL**	T023475	4.8	3/16	4.0	5/32	26.70	6,000	14.3	9/16	1.6	0.063	38.1	1-1/2	17.5	11/16	356	14	2.5	5.5
B	CP0351FUDEL*	T012608	6.4	1/4	5.6	7/32	53.40	12,000	14.3	9/16	3.2	0.125	54	2-1/8	19.8	25/32	552	21.7	6.9	15.2

ALLIGATOR (single cylinder)

C	CP0214ANBEL*	T012343	3.2	1/8	2.4	3/32	13.35	3,000	15.9	5/8	1.3	0.050	38.1	1-1/2	22.2	7/8	233	9.17	1.7	3.75
C	CP0214ANFEL*	T018671	2.4	3/32	2.4	3/32	9.79	2,200	22.2	7/8	2.4	0.094	57.1	2-1/4	22.2	7/8	254	10	1.9	4.18
C	CP0214ANGEL*	T018672	2.4	3/32	1.6	1/16	8.01	1,800	31.8	1-1/4	1.4	0.056	76.2	3	22.2	7/8	273	10.7	2.0	4.41
	CP0214ANPEL	T019138	Same power unit as above without yoke																	
D	CP0351ASGEL*	T007783	4.0	5/32	3.2	1/8	23.14	5,200	15.9	5/8	3.2	0.125	73	2-7/8	22.2	7/8	495	19.5	7.1	15.6
D	CP0351ASKEL*	T007773	3.2	1/8	2.4	3/32	15.13	3,400	34.0	1-3/8	4.8	0.188	127	5	22.2	7/8	549	21.6	9.0	19.8
	CP0351ASNEL	T025405	Same power unit as above without yoke																	
D	CP0351ASVEL*	T009582	3.2	1/8	2.4	3/32	13.35	3,000	42.9	1-11/16	1.6	0.063	232	9-1/8	19.1	3/4	654	25.7	11.9	26.2

ALLIGATOR (tandem cylinder)

C	CP0214ENGEL*	T018164	3.2	1/8	2.4	3/32	15.13	3,400	31.8	1-1/4	2.6	0.104	76.2	3	22.2	7/8	343	13.5	2.5	5.51
C	CP0214ENFEL*	T018163	4.0	5/32	3.2	1/8	19.14	4,300	22.2	7/8	2.4	0.094	57.1	2-1/4	22.2	7/8	324	12.8	2.4	5.28
C	CP0214ENBEL*	T018678	4.8	3/16	4.0	5/32	26.70	6,000	15.9	5/8	1.6	0.063	38.1	1-1/2	22.2	7/8	303	11.9	2.2	4.85
	CP0214ENPEL	T018997	Same power unit as above without yoke																	
D	CP0351ESKEL*	T012603	4.8	3/16	4.0	5/32	30.26	6,800	34.0	1-3/8	4.8	0.188	127	5	22.2	7/8	657	25.9	10.2	22.5
D	CP0351ESREL*	T012604	4.8	3/16	4.0	5/32	26.70	6,000	42.9	1-11/16	4.8	0.188	178	7	38.1	1-1/2	708	27.9	12.2	26.9
D	CP0351ESVEL*	T012605	4.8	3/16	4.0	5/32	26.70	6,000	42.9	1-11/16	1.6	0.063	232	9-1/8	19.1	3/4	762	30	13.2	29.1
D	CP0351ESGEL*	T012602	6.4	1/4	4.8	3/16	46.28	10,400	15.9	5/8	3.2	0.125	73	2-7/8	22.2	7/8	603	23.7	8.4	18.5

C-YOKE (pneumatic™)

E	CP0341CUDEL**	T022512	7.1	9/32	6.4	1/4	60.1	13,500	31.8	1-1/4	Full stroke								
	CP0341CUNEL	T022493	Same power unit as above without yoke																

* CR1 / ** CR2



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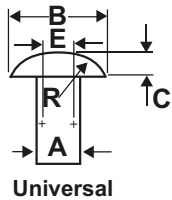
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Compression Tools - Riveting

Rivet dimensions

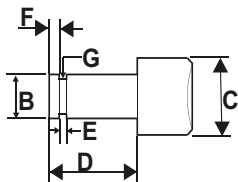
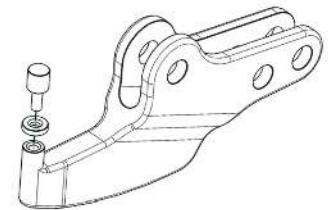


A		B		C		R		E	
mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
UNIVERSAL									
2.4	3/32"	4.75	0.187	1.04	0.041	2.08	0.082	1.19	0.047
3.2	1/8"	6.45	0.250	1.37	0.054	2.74	0.108	1.60	0.063
4.0	5/32"	7.92	0.312	1.70	0.067	3.43	0.135	1.98	0.078
4.8	3/16"	9.53	0.375	2.08	0.082	4.17	0.164	2.39	0.094
6.4	1/4"	12.70	0.500	2.72	0.107	5.51	0.217	3.18	0.125
7.9	5/16"	16.46	0.648	3.45	0.136	6.91	0.272	3.96	0.156

Rivet set shank (CR1/CR2)

SHANK DIMENSIONS FOR RIVET SETS

For CP0214, CP0351 and CP0341 Compression Riveters



TYPE OF RIVET SET SHANK	B		C*		D		E		F		G	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
CR-1 (ø 4.8mm 3/16")	4.75-4.72	0.187-0.186	12.7	1/2	12.7	1/2	3.45-3.38	0.136-0.133	1.6	1/16	3.23-3.12	0.127-0.123
CR-2 (ø 6.4mm 1/4")	6.42-6.40	0.249-0.248	15.9	5/8	15.9	5/8	3.45-3.38	0.136-0.133	2.4	3/32	4.80-4.70	0.189-0.185

* 'C' dimension is for flush set only. 'C' varies on cupped sets according to rivet size and type of head.

Rivet set length calculation

To develop maximum power, the riveter must drive (set) the rivet at the end of the riveter's stroke
For maximum power the combined length of the two rivet sets must be of the correct length

$$A1 + A2 = H - M - Z$$

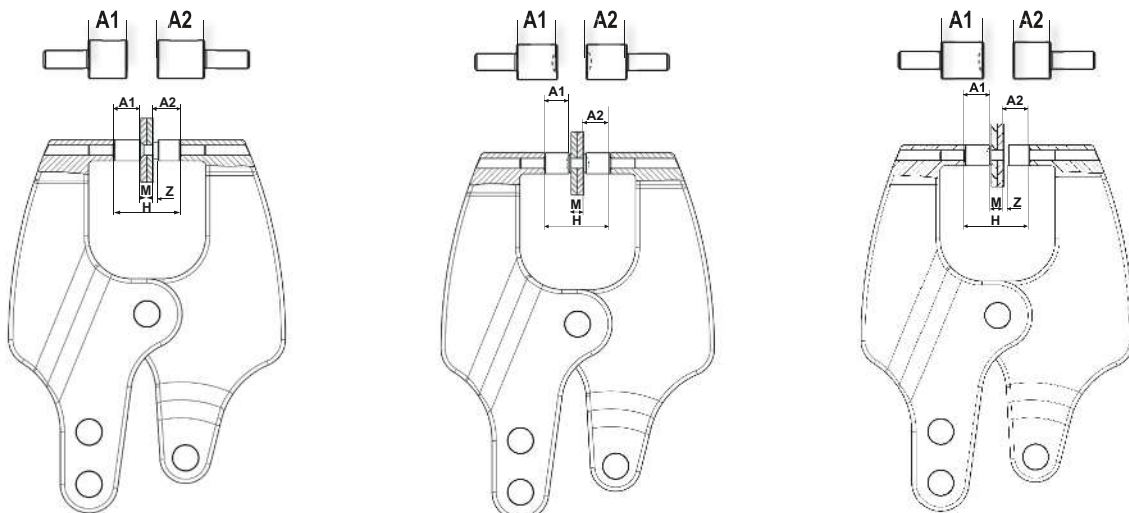
A1: Rivet set thickness (mobile jaw)

A2: Rivet set thickness (fix jaw)

H= Opening at the end of the riveting

M= Total thickness of material to be assembled

Z= height of finished rivet head (flush)



Two Flushed rivet set

Cupped rivet set

Compression Tools - Rivet sets

Rivet set Selection

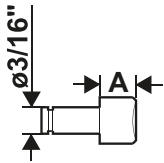
CUPPED SETS

RIVET DIAMETER		'A' BODY		AN-470 UNIVERSAL	AN-442 FLAT
mm	in.	mm	in.		

CR-1 SHANK RIVET SETS FOR CP0214 and CP0351 - CUPPED SETS

(C-Yoke tools - CP0214 CELEL, FALEL, CUDEL, FUEDEL + all Alligator Yoke tools)

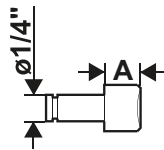
2.4	3/32	6.4	1/4	P089430	P091621
2.4	3/32	9.5	3/8	P089431	P091622
2.4	3/32	12.7	1/2	P089432	P091623
3.2	1/8	6.4	1/4	P089435	P091626
3.2	1/8	9.5	3/8	P089436	P091627
3.2	1/8	12.7	1/2	P089437	P091628
4.0	5/32	6.4	1/4	P089440	P091631
4.0	5/32	9.5	3/8	P089441	P091632
4.0	5/32	12.7	1/2	P089442	P091633
4.8	3/16	6.4	1/4	P089445	P091636
4.8	3/16	9.5	3/8	P089446	P091637
4.8	3/16	12.7	1/2	P089447	P091638



CR-2 SHANK RIVET SETS FOR CP0214 and CP0341 - CUPPED SETS

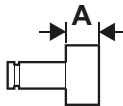
(C-Yoke tools - CP0214 SETEL, KETEL + CP0341 CUDEL)

3.2	1/8	6.4	1/4	P089510	-
3.2	1/8	9.5	3/8	P089511	-
3.2	1/8	12.7	1/2	P089512	-
4.0	5/32	6.4	1/4	P089515	-
4.0	5/32	9.5	3/8	P089516	-
4.0	5/32	12.7	1/2	P089517	-
4.8	3/16	6.4	1/4	P089520	-
4.8	3/16	9.5	3/8	P089521	-
4.8	3/16	12.7	1/2	P089522	-
6.4	1/4	6.4	1/4	P089525	-
6.4	1/4	9.5	3/8	P089526	-
6.4	1/4	12.7	1/2	P089527	-



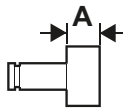
FLUSH SETS for any rivet size

SHANK SIZE	'A' BODY LENGTH					
	3.2mm (1/8")	6.4mm (1/4")	9.5mm (3/8")	12.7mm (1/2")	15.8mm (5/8")	19mm (3/4")
CR-1 (ø 4.8mm 3/16")	P089495	P089496	P089497	P089498	P089499	P089500
CR-2 (ø 6.4mm 1/4")	-	P089501	P089502	P089503	P089504	-



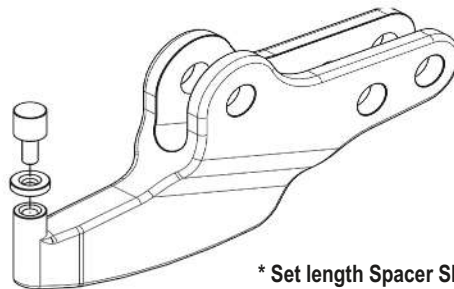
SOFT SETS BLANKS

TYPE OF RIVET SET SHANK	A BODY LENGTH		B BODY DIA.		PART NO.
	mm	in.	mm	in.	
CR-1 (ø 4.8mm 3/16")	19.1	3/4	15.9	5/8	P093672
CR-2 (ø 6.4mm 1/4")	19.1	3/4	19.1	3/4	P093673



RIVET SET

* SHIM



* Set length Spacer Shims

SET LENGTH SPACER SHIMS

TYPE OF RIVET SET SHANK	PART NUMBER OF HARDENED SHIMS		
	0.4mm (1/64")	0.8mm (1/32")	1.6mm (1/16")
CR-1	P083254	P083255	P083256

RIVET SET

TYPE OF RIVET SET SHANK	RETAINER RING
	PART NO.
CR-1	P071916
CR-2	P071917

Compression Tools – Sheet Metal Punch

CP0351-PU

- **Punching Capacity:**
ø 4.8mm (3/16") in aluminum through 4.8mm (3/16") material thickness
- **Actuation throttle guard:**
reduces the risk of accidental operation
- Use for a wide range of punching operations where it is preferable to take the tool to the job. e.g. large structures such as truck trailers



Capacity:

Maximum hole is ø 13mm (1/2") relative to material and thickness.
 Within maximum force of 24.0 kN – 5,400 lbs, material thickness should not exceed hole diameter.
 To determine force required use formula: $F = 3.14 \times D \times T \times S$
 where 'F' is force (lbs); 'D' is hole diameter (in.); 'T' is thickness of material (in.); 'S' is tensile strength of material (psi) or 'F' is force (kN); 'D' is hole diameter (mm); 'T' is thickness of material (mm); 'S' is tensile strength of material (N/mm²).

Accessories supplied with tool

HOLE SIZE IN ALUMINUM	PUNCH	DIE	COLLAR
ø 4.8mm (3/16")	P041307	P043009	P041309
ø 5.2mm (13/64")	P112836	P112837	P112838

MODEL	PART NUMBER	MAX. MATERIAL THICKNESS ALUM.		HOLE DIAMETER		MAX. DISTANCE EDGE OF SHEET TO HOLE CENTRELINE		MAX. PUNCHING FORCE (90 PSI/6.2 BAR)		WORK CLEARANCE PUNCH RETRACTED	
		mm	in.	mm	in.	mm	in.	kN	lb	mm	in.
CP0351PU	205 146 721 4	4.8	3/16	5.2	13/64	47.6	1-7/8	24.0	5400	12.7	1/2

Compression Tools – Edge Former

CP0351-CABH-DY

- Forming Capacity (max material thickness) – 6.4mm (1/4")
- Rotary Suspension Bail fitted – eases handling and orientation of tool
- Use for a wide range of flattening of spot welded flanges and removing bends
- Custom yokes and dies can be used for crimping and staking operations
- Automatic cycling frequency is adjustable from 1 cycle per throttle actuation to up to 200 cycles per minute whilst the throttle actuation is maintained.



Accessories supplied with tool

	PART NUMBER
• Yoke	P059557
• Die	P059556

MODEL	PART NUMBER	MAX. MATERIAL THICKNESS ALUM.		MAX. CYCLES PER MINUTE	REACH		MAX. COMPRESSIVE FORCE (90 PSI/6.2 BAR)	
		mm	in.		mm	in.	kN	lb
CP0351-CABH-DY	T020475						26.7	6000

Riveting Hammers



- Wide range of hammers suitable for all applications.
- Recoilless series for better operator's comfort.
- Progressive trigger for better control.

How to select the right tool?

<p>1 Rivet Light/Hard Material Diameter</p>	<p>2 Application accessibility</p>	<p>3 Operation repetitiveness Low vibration level</p>	<p>4 Rivet set selection</p>

Tool range

Our range covers a wide range of applications to answer all your requirements



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Riveting Hammers

Selection guide



PIC REF	MODEL	PART NUMBER	AIR FRAME REF	BLOW PER MINUTE	BORE & STROKE	ENERGY PER BLOW		CHISEL SHANK		RIVET CAPACITY		WEIGHT		AIR INLET	HOSE INT. Ø	
						J	ft.lb	mm	in.	mm (in.)	mm (in.)	kg	lb	in.	mm	in.

Standard

A	CP4444-1	205 147 938 4	2X (200)	2580	15 x 40 (19/32 x 1.47)	4.4	3.2	10.2	0.401	3.2 (1/8)	2.4 (3/32)	1.2	2.6	1/8	10	3/8
B	CP4444-RURAB	T022961	2X (200)	2580	12.7 x 50.8 (1/2 x 2)	4.0	2.9	10.2	0.401	3.2 (1/8)	2.4 (3/32)	1.0	2.2	1/4	10	3/8
B	CP4444-RUSAB	T022962	3X (300)	2160	12.7 x 76.2 (1/2 x 3)	6.1	4.5	10.2	0.401	4.8 (3/16)	4.0 (5/32)	1.1	2.3	1/4	10	3/8
B	CP4444-RUTAB	T022963	4X (240)	1740	12.7 x 101.6 (1/2 x 4)	8.1	6.0	10.2	0.401	6.4 (1/4)	4.8 (3/16)	1.3	2.7	1/4	10	3/8
C	CP4447-RUSAB	T022965	5XB (500)	1560	19.1 x 68.3 (3/4 x 2-11/18)	12.3	9.1	12.7	0.498	6.4 (1/4)	4.8 (3/16)	2.2	4.7	1/4	10	3/8
C	CP4447-RUTAB	T022912	7XB (700)	1140	19.1 x 98.4 (3/4 x 3-7/8)	17.8	13.1	12.7	0.498	7.9 (5/16)	6.4 (1/4)	2.3	5.1	1/4	10	3/8
C	CP4447-RUVAB	T022964	9XB (800)	900	19.1 x 147.6 (3/4 x 5-13/16)	26.6	19.6	12.7	0.498	9.5 (3/8)	7.9 (5/16)	2.7	9.0	1/4	10	3/8

Vibration reduced

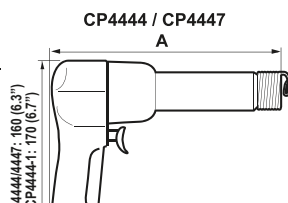
D	CP4450-2	T025189	2X (200)	2580	12.7 x 50.8 (1/2 x 2)	4.0	2.9	10.2	0.401	3.2 (1/8)	2.4 (3/32)	1.2	2.7	1/4	10	3/8
D	CP4450-3	T025190	3X (300)	2160	12.7 x 76.2 (1/2 x 3)	6.1	4.5	10.2	0.401	4.8 (3/16)	4.0 (5/32)	1.3	2.8	1/4	10	3/8
D	CP4450-4	T025191	4X (400)	1740	12.7 x 101.6 (1/2 x 4)	8.1	6.0	10.2	0.401	6.4 (1/4)	4.8 (3/16)	1.5	3.2	1/4	10	3/8
E	CP4475-3	T025241	5XB (500)	2000	19.1 x 76.2 (3/4 x 3)	13.7	10.1	12.7	0.498	6.4 (1/4)	4.8 (3/16")	1.8	3.9	1/4	10	3/8
E	CP4475-4	T025242	7XB (700)	1700	19.1 x 101.6 (3/4 x 4)	18.3	13.5	12.7	0.498	7.9 (5/16)	6.4 (1/4)	2.4	5.3	1/4	10	3/8
E	CP4475-6	T025243	9XB (800)	1250	19.1 x 152.4 (3/4 x 6)	27.5	20.3	12.7	0.498	9.5 (3/8)	7.9 (5/16)	2.8	6.2	1/4	10	3/8

* LIGHT: Aluminium 2017 / 2117 (DCJ-DXJ / D-AD)

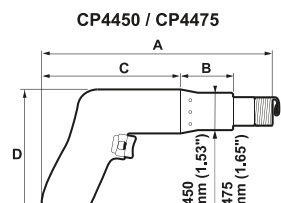
** HARD: Aluminium 7050 (DKJ / KE / E) (M) (T)

Dimensions

Model	A	
	mm	in.
CP4444-1	111	4.4
CP4444-RURAB	170	6.7
CP4444-RUSAB	186	7.3
CP4444-RUTAB	211	8.3
CP4447-RUSAB	227	8.9
CP4447-RUTAB	252	9.9
CP4447-RUVAB	303	11.9



Model	A		B		C		D	
	mm	in.	mm	in.	mm	in.	mm	in.
CP4450-2	213	8.4	32	1.26	102	4.0	138	5.4
CP4450-3	226	8.9	32	1.26	102	4.0	138	5.4
CP4450-4	251	9.9	60	2.36	102	4.0	138	5.4
CP4475-3	275	10.8	54	2.13	180	7.1	140	5.5
CP4475-4	300	11.8	79	3.11	180	7.1	140	5.5
CP4475-6	351	13.8	130	5.12	180	7.1	140	5.5



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Accessories

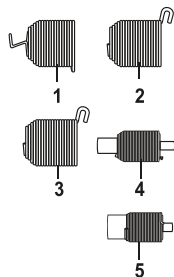
CP4444 / CP4447 / CP4450 / CP4475

ACCESSORIES INCLUDED

	PART NUMBER		
	CP4444-1	CP4444 CP4450	CP4447 CP4475
• Light wire quick change retainer	205 053 564 3	A046095	-
• Wire quick change retainer	-	-	A047095

OPTIONAL ACCESSORIES

ITEM	CP4444	CP4447
	CP4450	CP4475
1 Zip-Quick retainer	A046094	-
2 Beehive retainer	A046096	A047096
3 Beehive retainer	-	A046096
4 Nail driving attachment for 20-60 penny nail size (for CP4447-RUSAB & CP4475)	-	P042448
5 Nail driving attachment for 1/2" spikes (for CP4447-RUVAB)	-	P047810

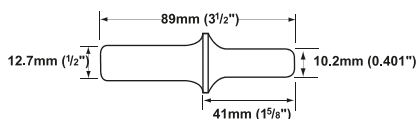


CP4444 / CP4450

TYPE I RIVET SETS Ø 10.2MM (.401")

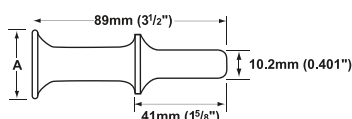
RIVET HEAD CUPPING	2.4MM (3/32")	3.2MM (1/8")	4.0MM (5/32")	4.8MM (3/16")	6.4MM (1/4")
• Universal	P089221	P089222	P089223	P089224	P089225*
• Soft Blank Set	P071108	-	-	-	-
• Hardened Blank Set	P080178	-	-	-	-

* Must use Light Wire Quick-Change Retainer, A046095 with these sets



TYPE I FLUSH RIVET SETS Ø 10.2MM (.401")

	ØA MM (IN.)	CP4444/4450 Ø10.2 (0.401") SHANK
•	25.4 (1)	A046090
•	31.8 (1-1/4)	A089232
•	38.1 (1-1/2)	A089233
•	44.5 (1-3/4)	A046091

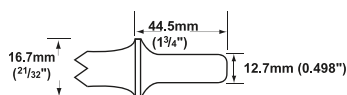


CP4447 / CP4475

TYPE D RIVET SETS Ø 12.7MM (.498")

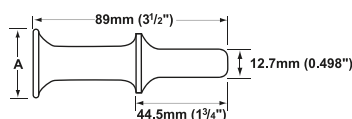
RIVET HEAD CUPPING	4.8MM (3/16")	6.4MM (1/4")	6.4MM (1/4")
• Universal	P089252	P089253	P089254*
• Soft blank set	P070995	-	-
• Hardened blank set	P080198	-	-

* Must use Light Wire Quick-Change Retainer, A047095



TYPE I FLUSH RIVET SETS Ø 12.7MM (.498")

	ØA MM (IN.)	SHANK Ø12.7MM (0.498")
•	31.8 (1-1/4)	A047091



Removal Tools



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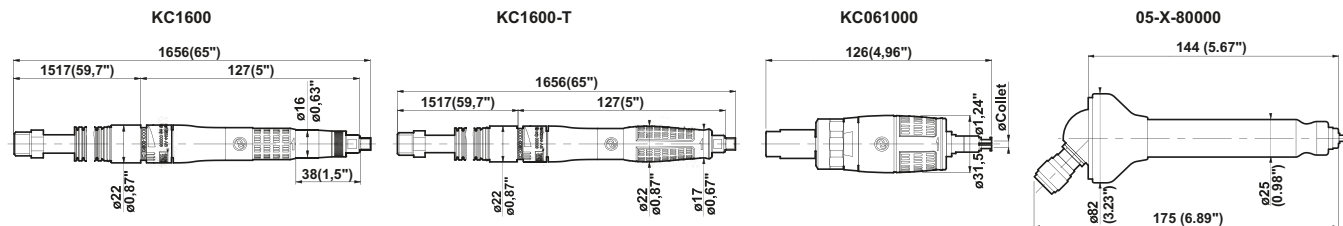
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Removal Tools - Selection Guide

TOOL TYPE	ACCESSORIES	PAGE
<p>GRINDERS: for carbide burrs, mounted points & sanding discs</p> 		<p>198-205</p>
<p>ROUTERS</p> 		<p>206</p>
<p>COLLET GRINDER ACCESSORIES</p>		<p>207</p>
<p>GRINDERS: for cone wheels, type 1 wheels, depressed center wheels, cut-off wheels, diamond discs, flap wheels</p> 		<p>208-223</p>
<p>SANDERS: for expandable wheels, flap wheels, brushes, abrasive discs</p> 		<p>224-233</p>
<p>DUST EXTRACTION SYSTEMS: for straight and angle grinders for angle and vertical sanders</p> 		<p>234-241</p>
<p>RANDOM ORBITAL SANDERS AND POLISHERS: for abrasive discs and polishing accessories ORBITAL SANDERS: for abrasive sheets</p> 		<p>242-253</p>
<p>BELT SANDERS</p> 		<p>254-255</p>

Accessories



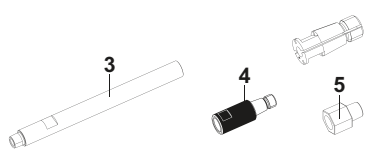
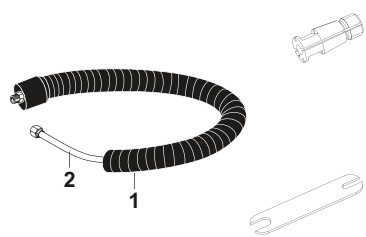
KC1600-T / KC1600

ACCESSORIES INCLUDED

ITEM	PART NO.
• Collet ø 3 mm	205 047 961 3
1 Exhaust kit - L = 1m (39.4")	615 396 405 0
2 Mounted inlet hose 1/4" BSP - ø 6mm (1/4") - L = 1.5m (59")	615 875 119 0
• Spanner (Qty 2)	205 047 965 3
• Carrying case (for T version only)	P137979

OPTIONAL ACCESSORIES

ITEM	PART NO.
• Collet ø 2.38 mm (3/32")	205 048 059 3
3 Machine extension - L = 150mm (5.9")	615 595 330 0
4 Collet extension - L = 20mm (0.79")	615 595 329 0
5 Adaptor 1/4" BSP - 1/4" NPT female	181523



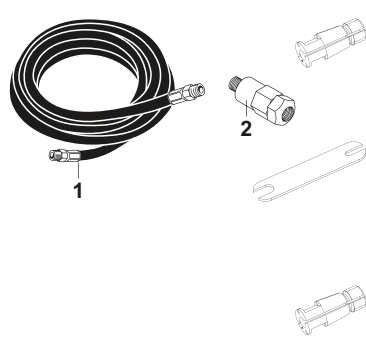
KC061000 / 05-X-80000

ACCESSORIES INCLUDED

ITEM	KC061000	05-X-80000
• Collet ø 3 mm	205 047 961 3	9812
1 Complete inlet hose 1/8" M - 1/4" M, ø 5mm (3/16") L = 2.40m (94.5")	P043886	
1 Complete inlet hose 1/4" M - 1/8" M-BSP, ø 5mm (3/16") L = 3m (118")		75922
2 Filter 1/4" F-1/4" M. NPT	P056381	
• Spanner (Qty 2)	205 047 965 3	

OPTIONAL ACCESSORIES

	KC061000	05-X-80000
• Collet ø 2.38mm (3/32")	205 048 059 3	9792



Grinders for carbide burrs and mounted points

44 to 100 Watts (0.06 to 0.13 hp) - 60000 to 100000 rpm



A



B



C



D

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET MAX CAPACITY		POWER		WEIGHT		AIR CONSUMPTION		AIR INLET. THREAD	HOSE INT. Ø	
				mm	in.	W	hp	kg	lb.	l/s	cfm	in.	mm	in.
PENCIL DIE GRINDERS														
A	KC1600-T	615 170 313 0	60000	3.00		100	0.13	0.15	0.33	4.9	10.4	1/4 BSP	6	1/4
B	KC1600	615 170 315 0	60000	3.00		100	0.13	0.15	0.33	4.9	10.4	1/4 BSP	6	1/4
TURBINE GRINDERS														
C	KC061000	205 146 638 4	100000	3.00		44	0.06	0.24	0.53	8.5	18.0	1/4	5	3/16
D	05-X-80000	205 146 638 4	100000	3.00		44	0.06	0.24	0.53	5.9	13.0	1/8	5	3/16



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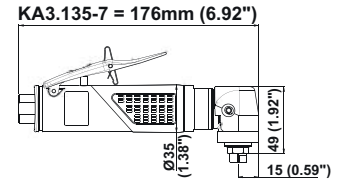
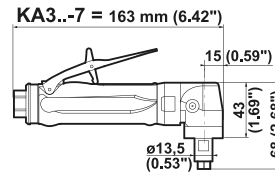
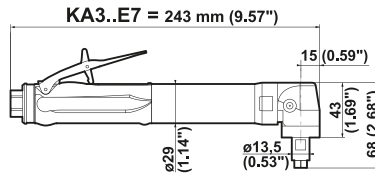
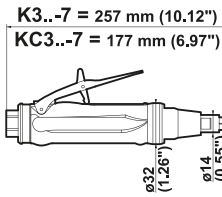
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Accessories



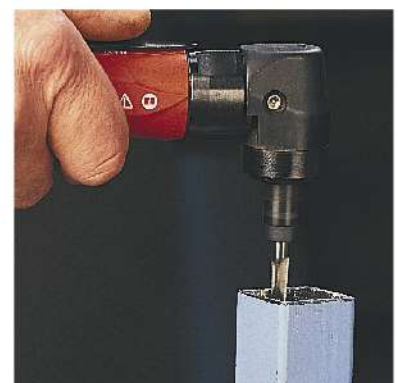
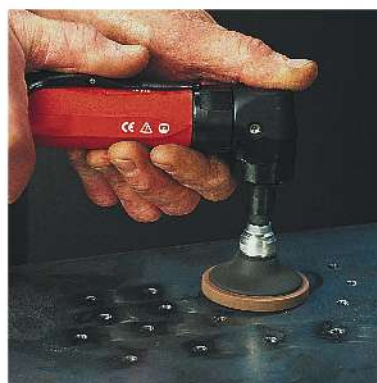
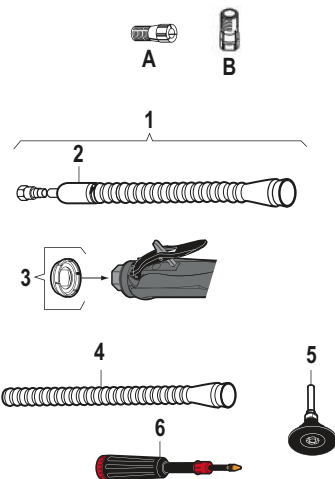
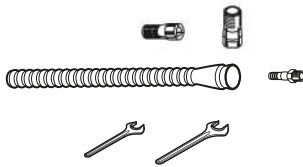
K3..-7 / KC3..-7 / KA3..E7 / KA3..-7 / KA3.135-7

ACCESSORIES INCLUDED

	K3.. / KC3.. / KA3..	KA3.135
• CNOMO collet \varnothing 6 mm	615 526 046 0	615 526 079 0
• Exhaust hose L = 0.8m (31")	615 875 106 0	
• 1/4" air hose nipple for 8mm (5/16") ID hose	615 704 019 0	
• 1/4" air hose nipple for 6mm (1/4") ID hose		615 705 009 0
• Flat wrench, 10mm (25/64")	615 801 002 0	615 801 002 0
• Flat wrench, 11mm (7/16")	615 801 003 0	
• Flat wrench, 14mm		615 801 005 0

OPTIONAL ACCESSORIES

ITEM	A		B	
	K3.. / KC3.. / KA3..	KA3.135	K3.. / KC3.. / KA3..	KA3.135
• Collet \varnothing 2 mm		615 526 066 0		615 526 068 0
• CNOMO collet \varnothing 2.5 mm	615 526 089 0		615 526 068 0	
• CNOMO collet \varnothing 3 mm	615 526 044 0		615 526 069 0	
• CNOMO collet \varnothing 3.2 mm (1/8")	615 526 045 0			
• Collet \varnothing 3.5mm		615 526 070 0		
• CNOMO collet \varnothing 4 mm (5/32")	615 526 090 0		615 526 071 0	
• CNOMO collet \varnothing 4.5 mm		615 526 073 0		
• CNOMO collet \varnothing 5 mm	615 526 092 0		615 526 075 0	
• Collet \varnothing 5.5mm		615 526 077 0		
• CNOMO collet \varnothing 6.4 mm (1/4")	615 526 047 0			
• Collet \varnothing 6.5mm		615 526 081 0		
• Collet \varnothing 7mm		615 526 083 0		
• Collet \varnothing 7.5mm		615 526 084 0		
• Collet \varnothing 8mm (5/16")		615 526 088 0		
1 Complete silencer kit	615 396 101 0		615 399 423 0	
2 Silencer	615 574 028 0			
3 Clippable silencer	615 396 124 0			
4 Exhaust hose L = 0.8m (31")		615 875 106 0		
5 Backing pad \varnothing 50mm		615 804 098 0		
6 Grease gun (capacity 24g - 0.8 oz.)	615 990 149 0			
• Grease for bevel gear (1kg - 2.2lb)	615 990 148 0			



Grinders for carbide burrs, mounted points and sanding discs

300 and 375 Watts (0.4 and 0.5 hp) - 12000 to 40000 rpm

Supplied with CNOMO collet, ø 6mm



A



B



C



D

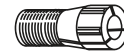


E

K3..-7 / KC3..-7 / KA3..E7 / KA3..-7

KA3.135-7

CNOMO type collet



Caution: comply with the speeds recommended by component and abrasive manufacturers. PIC

PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET MAX CAPACITY		POWER		WEIGHT		AIR CONSUMPTION				AIR INLET. THREAD		HOSE INT. Ø	
				rpm	mm	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.

STRAIGHT GRINDERS

A	K340-7	615 170 036 0	40000	6.4	1/4	375	0.5	0.58	1.28	7.5	16.0	10.0	21	1/4	8	5/16
A	K331-7	615 170 035 0	31000	6.4	1/4	375	0.5	0.58	1.28	4.5	9.5	9.5	20	1/4	8	5/16
A	K325-7	615 170 034 0	25000	6.4	1/4	375	0.5	0.58	1.28	3.5	7.5	9.5	20	1/4	8	5/16
A	K320-7	615 170 033 0	20000	6.4	1/4	375	0.5	0.58	1.28	2.5	5.0	8.0	17	1/4	8	5/16
B	KC340-7	615 170 032 0	40000	6.4	1/4	375	0.5	0.40	0.88	7.5	16.0	10.0	21	1/4	8	5/16
B	KC331-7	615 170 031 0	31000	6.4	1/4	375	0.5	0.40	0.88	4.5	9.5	9.5	20	1/4	8	5/16
B	KC325-7	615 170 030 0	25000	6.4	1/4	375	0.5	0.40	0.88	3.5	7.5	9.5	20	1/4	8	5/16
B	KC320-7	615 170 029 0	20000	6.4	1/4	375	0.5	0.40	0.88	2.5	5.0	8.0	17	1/4	8	5/16

ANGLE GRINDERS

C	KA320E7	615 170 047 0	20000	6.4	1/4	375	0.5	0.60	1.32	6.5	13.5	10.0	21	1/4	8	5/16
C	KA312E7	615 170 039 0	12000	6.4	1/4	375	0.5	0.60	1.32	3.0	6.5	9.0	19	1/4	8	5/16
D	KA320-7	615 170 043 0	20000	6.4	1/4	375	0.5	0.50	1.10	6.5	13.5	10.0	21	1/4	8	5/16
D	KA312-7	615 170 037 0	12000	6.4	1/4	375	0.5	0.50	1.10	3.0	6.5	9.0	19	1/4	8	5/16
E	KA3.135-7	615 170 515 0	13500	8.0	5/16	300	0.4	0.60	1.30	9.5	20.0			1/4	6	1/4



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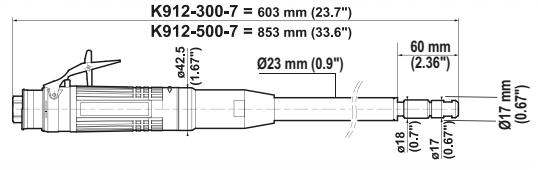
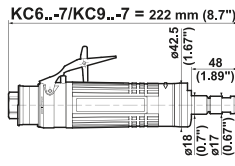
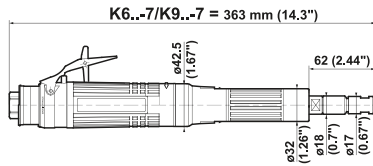
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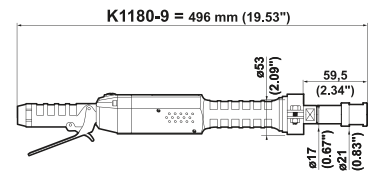
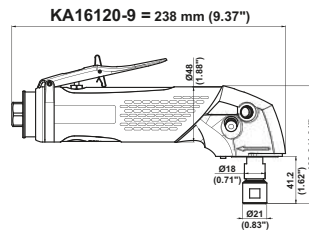
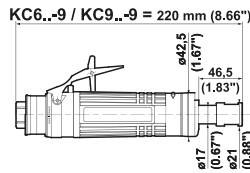
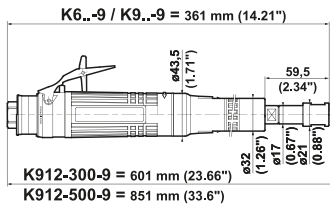
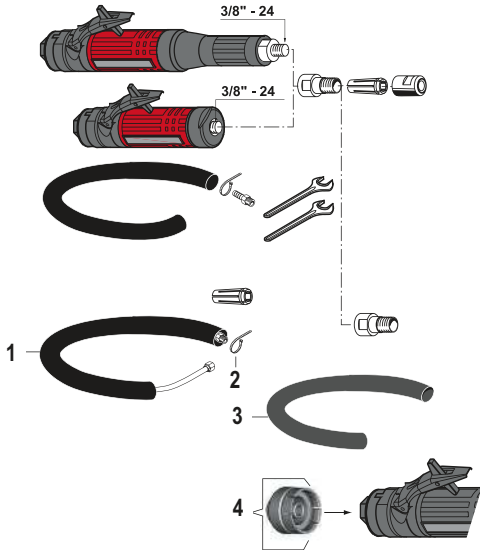
K6..-7 / K9..-7 / KC6..-7 / KC9..-7

ACCESSORIES INCLUDED

	PART NO.
• Collet-holder	615 523 018 0
• CNOMO collet \varnothing 6mm	615 526 049 0
• Exhaust hose L = 1.5m (60")	615 875 113 0
• Clamp	615 873 415 0
• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0
• Flat wrench, 14mm (Qty 2)	615 801 005 0

OPTIONAL ACCESSORIES

ITEM	PART NO.
• Collet-holder extension L = 28mm (1.1")	615 523 019 0
• CNOMO collet \varnothing 3 mm	615 526 048 0
• CNOMO collet \varnothing 6.35 mm (1/4")	615 526 050 0
• CNOMO collet \varnothing 8 mm	615 526 051 0
1 Complete silencer kit	615 396 166 0
2 Clamp	615 873 115 0
3 Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
4 Clippable silencer	615 396 655 0



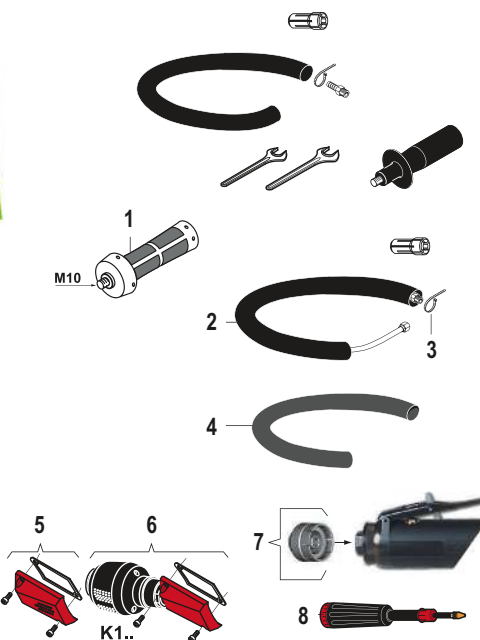
K6..-9 / K9..-9 / KC6..-9 / KC9..-9 / KA16120-9 / K1180-9

ACCESSORIES INCLUDED

	K/KC6 / K/KC9 KA16120-9	K1180-9
• Series 200 resilient collet, collet \varnothing 5.55 to 6.35mm (1/4")	615 526 063 0	615 526 063 0
• Series 200 resilient collet, collet \varnothing 8.7 to 9.5mm (3/8")		615 526 065 0
• Exhaust hose L = 1.5m (60")	615 875 113 0	
• Clamp	615 873 415 0	
• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0	
• 3/8" air hose nipple for 13mm (1/2") ID hose for KA16120-9	615 704 027 0	
• 1/2" air hose nipple for 16mm (5/8") ID hose		615 704 014 0
• Flat wrench, 14mm	615 801 005 0	615 801 005 0
• Flat wrench, 19mm (3/4")	615 801 076 0	615 801 076 0
• Side handle for KA16120-9	615 576 038 0	

OPTIONAL ACCESSORIES

ITEM	K/KC6 / K/KC9 KA16120-9	K1180-9
• Series 200 resilient collet, collet \varnothing 2.4 to 3.2mm (1/8")	615 526 061 0	615 526 061 0
• Series 200 resilient collet, collet \varnothing 5.2 to 6mm	615 526 062 0	615 526 062 0
• Series 200 resilient collet, collet \varnothing 7.2 to 8mm	615 526 064 0	615 526 064 0
• Series 200 resilient collet, collet \varnothing 8.7 to 9.5mm (3/8")	615 526 065 0	
1 Vibration-damping handle for KA16120-9	615 576 066 0	
2 Complete silencer kit	615 396 166 0	
3 Clamp	615 873 115 0	
4 Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0	
5 Silencer kit		615 399 298 0
6 Silencer kit		615 399 459 0
7 Clippable silencer	615 396 655 0	
7 Clippable silencer for KA16120-9	615 396 957 0	
8 Grease gun (capacity 240 - 0.8oz) for KA16120-9	615 990 149 0	
	615 990 148 0	



Grinders for carbide burrs and mounted points

600 to 1700 Watts (0.8 to 2.3 hp) - 12000 to 28000 rpm



Supplied with CNOMO collet, ø 6mm

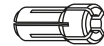
K6..-7 / K9..-7 / KC6..-7 / KC9..-7
CNOMO type collet



Supplied with series 200 resilient collet, ø 5.55 to 6.35mm (1/4") & ø 8.7 to 9.5mm (3/8")



K6..-9 / KC9..-9 / KC6..-9 /
KC9..-9 / KA1620-9 / K1180-9
Series 200 collet



Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET MAX CAPACITY		POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD	HOSE INT. Ø	
				rpm	mm	in.	W	hp	kg	lb.	AT FREE SPEED	AT MAX OUTPUT	l/s		cfm	l/s

CNOMO collet

A	K628-7	615 170 107 0	28000	8	5/16	600	0.80	1.3	2.9	16	34	15	32	3/8	10	3/8
A	K624-7	615 170 106 0	24000	8	5/16	600	0.80	1.3	2.9	10	21	15	32	3/8	10	3/8
A	K922-7	615 170 119 0	22000	8	5/16	900	1.21	1.4	3.1	13	28	18	38	3/8	10	3/8
A	K619-7	615 170 105 0	19000	8	5/16	600	0.80	1.3	2.9	6	13	15	32	3/8	10	3/8
A	K918-7	615 170 117 0	18000	8	5/16	900	1.21	1.4	3.1	10	21	18	38	3/8	10	3/8
A	K615-7	615 170 104 0	15000	8	5/16	600	0.80	1.3	2.9	6	13	15	32	3/8	10	3/8
A	K915-7	615 170 114 0	15000	8	5/16	900	1.21	1.4	3.1	8	17	17	36	3/8	10	3/8
A	K912-7	615 170 110 0	12000	8	5/16	900	1.21	1.4	3.1	6	13	16	34	3/8	10	3/8
B	KC628-7	615 170 126 0	28000	8	5/16	600	0.80	0.9	2.0	16	34	15	32	3/8	10	3/8
B	KC624-7	615 170 125 0	24000	8	5/16	600	0.80	0.9	2.0	10	21	15	32	3/8	10	3/8
B	KC922-7	615 170 130 0	22000	8	5/16	900	1.21	1.0	2.2	13	28	18	38	3/8	10	3/8
B	KC619-7	615 170 124 0	19000	8	5/16	600	0.80	0.9	2.0	6	13	15	32	3/8	10	3/8
B	KC918-7	615 170 129 0	18000	8	5/16	900	1.21	1.0	2.2	10	21	18	38	3/8	10	3/8
B	KC615-7	615 170 123 0	15000	8	5/16	600	0.80	0.9	2.0	6	13	15	32	3/8	10	3/8
B	KC915-7	615 170 128 0	15000	8	5/16	900	1.21	1.0	2.2	8	17	17	36	3/8	10	3/8
B	KC912-7	615 170 127 0	12000	8	5/16	900	1.21	1.0	2.2	6	13	16	34	3/8	10	3/8
C	K912-300-7	615 170 108 0	12000	8	5/16	900	1.21	2.1	4.6	6	13	16	34	3/8	10	3/8
C	K912-500-7	615 170 109 0	12000	8	5/16	900	1.21	2.7	5.9	6	13	16	34	3/8	10	3/8

SERIES 200 collet

D	K628-9	615 170 150 0	28000	9.5	3/8	600	0.80	1.3	2.9	16	34	15	32	3/8	10	3/8
D	K624-9	615 170 151 0	24000	9.5	3/8	600	0.80	1.3	2.9	10	21	15	32	3/8	10	3/8
D	K922-9	615 170 152 0	22000	9.5	3/8	900	1.21	1.4	3.1	13	28	18	38	3/8	10	3/8
D	K619-9	615 170 153 0	19000	9.5	3/8	600	0.80	1.3	2.9	6	13	15	32	3/8	10	3/8
D	K918-9	615 170 154 0	18000	9.5	3/8	900	1.21	1.4	3.1	10	21	18	38	3/8	10	3/8
D	K615-9	615 170 155 0	15000	9.5	3/8	600	0.80	1.3	2.9	6	13	15	32	3/8	10	3/8
D	K915-9	615 170 156 0	15000	9.5	3/8	900	1.21	1.4	3.1	8	17	17	36	3/8	10	3/8
D	K912-9	615 170 157 0	12000	9.5	3/8	900	1.21	1.4	3.1	6	13	16	34	3/8	10	3/8
E	KC628-9	615 170 158 0	28000	9.5	3/8	600	0.80	0.9	2.0	16	34	15	32	3/8	10	3/8
E	KC624-9	615 170 159 0	24000	9.5	3/8	600	0.80	0.9	2.0	10	21	15	32	3/8	10	3/8
E	KC922-9	615 170 160 0	22000	9.5	3/8	900	1.21	1.0	2.2	13	28	18	38	3/8	10	3/8
E	KC619-9	615 170 161 0	19000	9.5	3/8	600	0.80	0.9	2.0	6	13	15	32	3/8	10	3/8
E	KC918-9	615 170 162 0	18000	9.5	3/8	900	1.21	1.0	2.2	10	21	18	38	3/8	10	3/8
E	KC615-9	615 170 163 0	15000	9.5	3/8	600	0.80	0.9	2.0	6	13	15	32	3/8	10	3/8
E	KC915-9	615 170 164 0	15000	9.5	3/8	900	1.21	1.0	2.2	8	17	17	36	3/8	10	3/8
E	KC912-9	615 170 165 0	12000	9.5	3/8	900	1.21	1.0	2.2	6	13	16	34	3/8	10	3/8
F	K912-300-9	615 170 169 0	12000	9.5	3/8	900	1.21	2.1	4.6	6	13	16	34	3/8	10	3/8
F	K912-500-9	615 170 170 0	12000	9.5	3/8	900	1.21	2.7	5.9	6	13	16	34	3/8	10	3/8
G	KA16120-9	615 170 443 0	17000	9.5	3/8	1700	2.30	1.4	3.2	20	42	22	68	3/8	13	1/2
H	K1180-9	615 170 171 0	17000	9.5	3/8	1700	2.30	1.4	3.2	20	42	22	68	3/8	15	5/8



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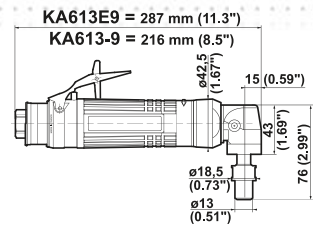
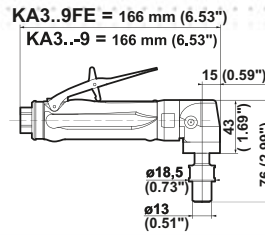
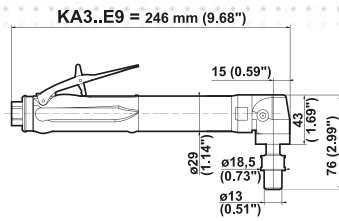
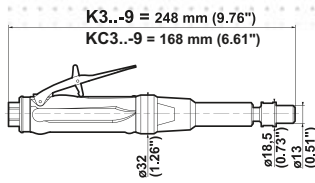
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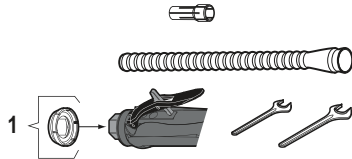
Accessories



4734 / K3..-9 / KC3..-9 / KA3..E9 / KA3..-9 / KA3..-9FE

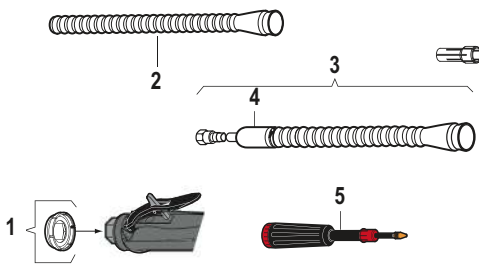
ACCESSORIES INCLUDED

ITEM	4734	K3../KC3..-9 KA3..E9/KA3..-9	KA3..-9FE
• Series 300 resilient collet, \varnothing 5.55 to 6.35mm (1/4")	8482	615 526 059 0	615 526 059 0
• Exhaust hose L = 0.8m (31")	222453	615 875 106 0	
• Clamp	235203		
• 1/4" air hose nipple for 8mm (5/16") ID hose		615 704 019 0	615 704 019 0
1 Clippable silencer			615 396 124 0
• Flat wrench, 11mm (7/16")	199003	615 801 003 0	615 801 003 0
• Flat wrench, 17mm (1-1/16")	615 801 032 0	615 801 032 0	615 801 032 0
• Flat wrench, 16mm (5/8" A/F)	18583		



OPTIONAL ACCESSORIES

ITEM	K3../KC3..-9 KA3..E9/KA3..-9	KA3..-9FE
• Series 300 resilient collet, \varnothing 0.4 to 1.2mm	615 526 052 0	615 526 052 0
• Series 300 resilient collet, \varnothing 1.2 to 2mm	615 526 053 0	615 526 053 0
• Series 300 resilient collet, \varnothing 1.7 to 2.5mm	615 526 054 0	615 526 054 0
• Series 300 resilient collet, \varnothing 2.4 to 3.2mm (1/8")	615 526 055 0	615 526 055 0
• Series 300 resilient collet, \varnothing 3.16 to 3.96mm	615 526 056 0	615 526 056 0
• Series 300 resilient collet, \varnothing 3.95 to 4.75mm	615 526 057 0	615 526 057 0
• Series 300 resilient collet, \varnothing 4.75 to 5.55mm	615 526 058 0	615 526 058 0
2 Exhaust hose L = 0.8 m (31")		615 875 106 0
3 Complete silencer kit	615 396 101 0	615 396 101 0
4 Silencer	615 574 028 0	615 574 028 0
1 Clippable silencer	615 396 124 0	
5 Grease gun (capacity 24g - 0.8 oz.)	615 990 149 0	615 990 149 0
• Grease for bevel gear (1kg -2.2 lb.)	615 990 148 0	615 990 148 0



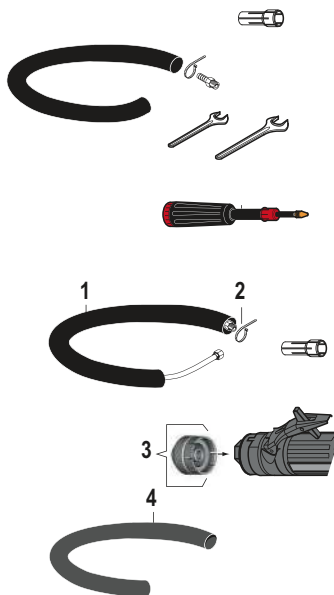
KA613E9 / KA613-9

ACCESSORIES INCLUDED

	PART NO.
• Series 300 resilient collet, \varnothing 5.55 to 6.35mm (1/4")	615 526 059 0
• Exhaust hose L = 1.5m (60")	615 875 113 0
• Clamp	615 873 415 0
• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0
• Flat wrench, 11mm (7/16")	615 801 003 0
• Flat wrench, 17mm (1-1/16")	615 801 032 0
• Grease gun (capacity 24g - 0.8 oz.)	615 990 149 0

OPTIONAL ACCESSORIES

ITEM	PART NO.
• Series 300 resilient collet, \varnothing 0.4 to 1.2 mm (3/64")	615 526 052 0
• Series 300 resilient collet, \varnothing 1.2 to 2 mm (5/64")	615 526 053 0
• Series 300 resilient collet, \varnothing 1.7 to 2.5 mm (3/32")	615 526 054 0
• Series 300 resilient collet, \varnothing 2.4 to 3.2 mm (1/8")	615 526 055 0
• Series 300 resilient collet, \varnothing 3.16 to 3.96 mm (5/32")	615 526 056 0
• Series 300 resilient collet, \varnothing 3.95 to 4.75 mm (3/16")	615 526 057 0
• Series 300 resilient collet, \varnothing 4.75 to 5.55 mm (7/32")	615 526 058 0
1 Complete silencer kit	615 396 166 0
2 Clamp	615 873 115 0
3 Clippable silencer	615 396 655 0
4 Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
	615 990 148 0



Grinders for carbide burrs, mounted points and sanding discs

300 to 600 Watts (0.4 to 0.8 hp) - 9000 to 40000 rpm

Supplied with series 300 resilient collet, \varnothing 5.55 to 6.35mm (1/4")



Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET MAX CAPACITY		POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD		HOSE INT Ø	
				rpm	mm	in.	W	hp	kg	lb.	AT FREE SPEED	AT MAX OUTPUT	l/s	cfm	l/s	cfm	in.
STRAIGHT GRINDERS																	
A	4734	4734	20000	6.35	1/4	300	0.4	0.60	1.32	8.5	18	10	21	1/4	10	3/8	
B	K340-9	615 170 139 0	40000	6.35	1/4	375	0.5	0.57	1.26	7.5	16	10	21	1/4	8	5/16	
B	K331-9	615 170 140 0	31000	6.35	1/4	375	0.5	0.57	1.26	4.5	9.5	9.5	20	1/4	8	5/16	
B	K325-9	615 170 141 0	25000	6.35	1/4	375	0.5	0.57	1.26	3.5	7.5	9.5	20	1/4	8	5/16	
B	K320-9	615 170 142 0	20000	6.35	1/4	375	0.5	0.57	1.26	2.5	5.0	8.0	17	1/4	8	5/16	
C	KC340-9	615 170 143 0	40000	6.35	1/4	375	0.5	0.38	0.84	7.5	16	10	21	1/4	8	5/16	
C	KC331-9	615 170 144 0	31000	6.35	1/4	375	0.5	0.38	0.84	4.5	9.5	9.5	20	1/4	8	5/16	
C	KC325-9	615 170 145 0	25000	6.35	1/4	375	0.5	0.38	0.84	3.5	7.5	9.5	20	1/4	8	5/16	
C	KC320-9	615 170 027 0	20000	6.35	1/4	375	0.5	0.38	0.84	2.5	5.0	8.0	17	1/4	8	5/16	
C	KC318-9	615 170 196 0	18000	6.35	1/4	375	0.5	0.38	0.84	2.5	5.0	8.0	17	1/4	8	5/16	
ANGLE GRINDERS																	
D	KA320E9	615 170 146 0	20000	6.35	1/4	375	0.5	0.61	1.35	6.5	13.5	10	21	1/4	8	5/16	
D	KA312E9	615 170 147 0	12000	6.35	1/4	375	0.5	0.61	1.35	3.0	6.5	9.0	9	1/4	8	5/16	
E	KA320-9	615 170 148 0	20000	6.35	1/4	375	0.5	0.51	1.13	6.5	13.5	10	21	1/4	8	5/16	
E	KA318-9	615 170 461 0	18000	6.35	1/4	375	0.5	0.51	1.13	6.5	13.5	10	21	1/4	8	5/16	
E	KA312-9	615 170 149 0	12000	6.35	1/4	375	0.5	0.51	1.13	3.0	6.5	9.0	19	1/4	8	5/16	
E	KA309-9	615 170 266 0	9000	6.35	1/4	375	0.5	0.50	1.10	3.0	6.5	9.0	19	1/4	8	5/16	
F	KA320-9FE*	615 170 206 0	20000	6.35	1/4	375	0.5	0.51	1.13	6.5	13.5	10	21	1/4	8	5/16	
F	KA312-9FE*	615 170 205 0	12000	6.35	1/4	375	0.5	0.51	1.13	3.0	6.5	9.0	19	1/4	8	5/16	
G	KA613E9	615 170 136 0	13000	6.35	1/4	600	0.8	1.40	3.10	10	21	15	32	3/8	10	3/8	
H	KA613-9	615 170 135 0	13000	6.35	1/4	600	0.8	1.10	2.40	10	21	15	32	3/8	10	3/8	

* Front Exhaust models



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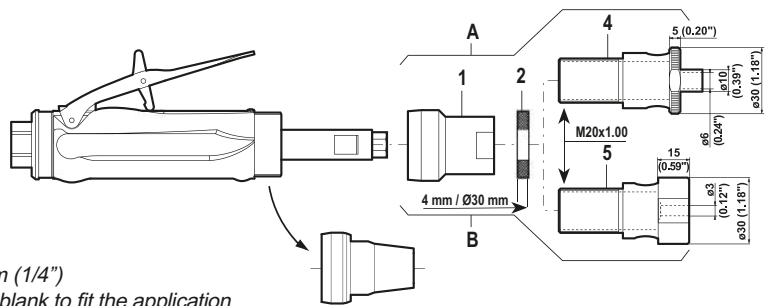
Routers

375 to 900 Watts (0.5 to 1.21 hp) - 12000 to 40000 rpm

375 W (0.5hp) - 20000 to 40000 rpm
CNOMO type collet



A

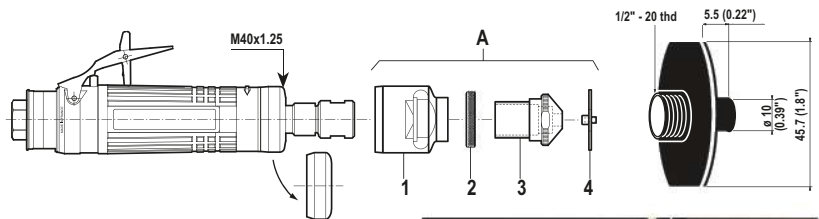


615 396 069 0: Machined routing kit for burr, max ø 6.4mm (1/4")
615 396 070 0: Blank routing kit allowing you to adapt the blank to fit the application

600 - 900 W (0.8 - 1.21hp) - 12000 to 28000 rpm
CNOMO type or Series 200 collet



B



615 396 289 0: Machined routing kit for burr, max ø 6.4mm (1/4")



OPTIONAL ACCESSORIES

ITEM	KC3..	KC6.. / KC9..
A Machined routing kit	615 396 069 0	615 396 289 0
B Blank routing kit (item 1, 2, 5)	615 396 070 0	
1 Flange	615 595 231 0	615 595 245 0
2 Adjusting nut	615 607 140 0	615 607 145 0
• Circlip		615 687 056 0
• Bearing		615 758 127 0
3 Router nose		615 542 132 2
4 Machined routing guide	615 542 125 0	615 542 131 0
5 Blank routing guide	615 542 125 2	

If you need a complete tool use the KC624-9RT (24000 rpm) Part No. 615 170 290 0

If you need a specific speed or a higher power:

Select the motor, the speed of your choice below then add the routing kit.

For example: Tool with Series 200 collet - 900 W -22000 rpm (KC922-9) + routing kit Order 615 170 160 0 + 615 396 289 0

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	FREE SPEED	POWER		PART NO.		ROUTING KIT	
			W	hp	CNOMO COLLET (-7)	SERIES 200 COLLET (-9)	MACHINED	BLANK
		rpm						

375 W (0.5 HP) - CNOMO TYPE COLLET

A	KC340-7	40000	375	0.5	615 170 032 0	+		
A	KC331-7	31000	375	0.5	615 170 031 0	+		
A	KC325-7	25000	375	0.5	615 170 030 0	+		
A	KC320-7	20000	375	0.5	615 170 029 0	+		

615 396 069 0



615 396 070 0



600 - 900 W (0.8 - 1.21 HP) - CNOMO TYPE OR SERIES 200 COLLET

B	KC628-	28000	600	0.80	615 170 126 0	615 170 158 0	+	
B	KC624-	24000	600	0.80	615 170 125 0	615 170 159 0	+	
B	KC922-	22000	900	1.21	615 170 130 0	615 170 160 0	+	
B	KC619-	19000	600	0.80	615 170 124 0	615 170 161 0	+	
B	KC918-	18000	900	1.21	615 170 129 0	615 170 162 0	+	
B	KC615-	15000	600	0.80	615 170 123 0	615 170 163 0	+	
B	KC915-	15000	900	1.21	615 170 128 0	615 170 164 0	+	
B	KC912-	12000					+	

615 396 289 0



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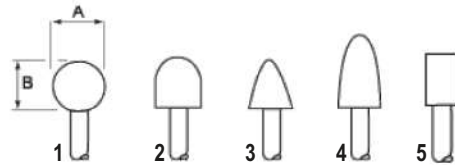
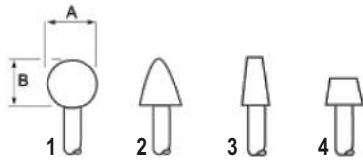
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Collet Grinder Accessories



Aluminium Oxide Mounted Points are available in red grades. Red grades are suitable for grinding high tensile materials such as ordinary and alloy steels, high speed steel and annealed malleable iron.



MOUNTED POINTS 3MM Ø SHANK - RED

Can also be used with collet type CNOMO or 200 & 300 Series (1/8")

PIC REF	MAX SPEED	A		B		PART NO.
		mm	in.	mm	in.	
1	104000	5	0.19	5	0.19	38582
2	104000	5	0.19	8	0.31	38522
3	105000	4	0.16	4	0.16	38562
4	81000	6	0.25	6	0.25	38542

MOUNTED POINTS 6MM Ø SHANK - RED

Can also be used with collet type CNOMO or 200 & 300 Series (1/4")

PIC REF	MAX SPEED	A		B		PART NO.
		mm	in.	mm	in.	
1	59000	16	0.62	16	0.62	435983
2	50000	20	0.79	16	0.62	435993
3	45000	20	0.79	28	1.10	436003
4	48000	20	0.79	32	1.26	436013
5	38000	25	1.00	3	0.11	436043

RECOMMENDED SPEEDS FOR TUNGSTEN CARBIDE BURRS - rpm x 1000

MATERIAL	HEAD DIAMETER				
	3mm (1/8")	6mm (1/4")	10mm (3/8")	13mm (1/2")	16mm (5/8")
Alum, Zinc Base, Plastics	30-90	15-70	10-50	17-38	6-30
Cast Iron, Brass, Copper, Bronze	45-90	23-60	15-40	11-30	9-24
Mild Steel	60-90	45-60	30-40	22-30	18-24
Titanium, Stainless, Hardened Steels, Ceramics	60-90	30-45	19-30	15-22	12-18

ABRASIVE DISCS

SPEED	GRIT	PART NO.
rpm		
25000	P40	615 804 099 0
25000	P60	615 804 100 0
25000	P80	615 804 101 0
25000	P120	615 804 102 0



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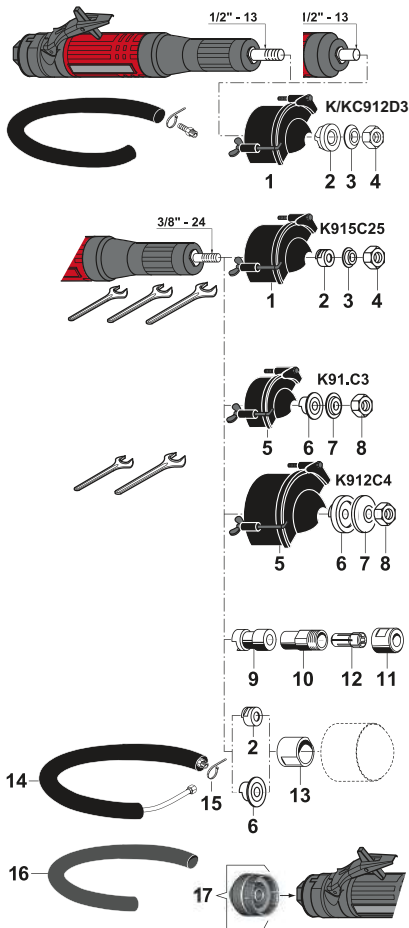
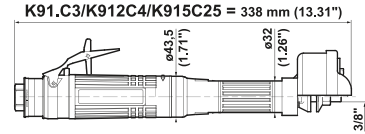
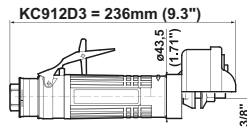
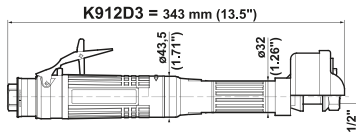
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Accessories



K9..

ACCESSORIES INCLUDED

ITEM	K/KC912D3 Ø 80mm (3")	K915C25 Ø 63mm (2 1/2")
• Exhaust hose L = 1.5m (60")	615 875 113 0	615 875 113 0
• Clamp	615 873 415 0	615 873 415 0
• 3/8" air hose nipple for 10mm ID hose	615 704 017 0	615 704 017 0
1 Wheel guard for K912D3	615 504 151 0	615 504 150 0
1 Wheel guard for KC912D3	615 504 214 0	
2 Rear flange	615 503 127 0	615 503 126 0
3 Front flange	615 502 044 0	615 502 043 0
4 Locknut	615 608 045 0	615 608 044 0
• Flat wrench 17mm (1-1/16")		615 801 032 0
• Flat wrench 14.3mm (9/16")		615 801 074 0
• Flat wrench 19mm (3/4")	615 801 076 0	

ITEM	K91.C3 Ø 80mm (3")	K912C4 Ø 100mm (4")
5 Wheel guard	615 504 151 0	615 504 152 0
6 Rear flange	615 503 125 0	615 503 131 0
7 Front flange	615 502 013 0	615 502 063 0
8 Locknut	615 608 044 0	615 608 044 0
• Flat wrench. 14.3mm (9/16")	615 801 074 0	615 801 074 0
• Flat wrench. 19mm (3/4")	615 801 076 0	615 801 076 0

OPTIONAL ACCESSORIES

ITEM		PART NO.
9	Spacer for collet-holder	615 666 149 0
10	Series 200 collet-holder	615 523 023 0
11	Series 200 collet nut	615 607 144 0
12	Series 200 Erickson collet	(see page 202)
13	Spacer for threaded cone wheel 3/8"	615 503 516 0
	• Rear flange supplied with tool 615 503 125 0 or 615 503 126 0	
14	Complete silencer kit	615 396 166 0
15	Clamp	615 873 115 0
16	Reinforced cloth-lined exhaust hose L = 0.75 m (30")	615 875 116 0
17	Clippable silencer	615 396 655 0



Grinders for cone wheels and type 1 wheels ø 63mm (2-1/2") - ø 80mm (3") - ø 100mm (4")

900 Watts (1.21 hp) - 12000 to 18000 rpm



A



B



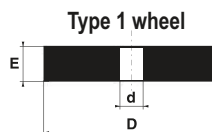
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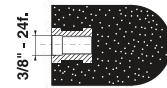
D



E



Wheel type 16 - 18 - 18R and 19



* Reinforced resinoid wheel

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET. THREAD	HOSE INT. Ø	
				D	xExd		W	hp	kg	lb.	AT FREE SPEED		AT MAX OUTPUT			mm	in.
			rpm	mm	in.	in.					l/s	cfm	l/s	cfm	in.	mm	in.
A	K918C3	615 170 118 0	18000	*80x13x9.52	3x1/2x3/8	3/8-24	900	1.21	1.7	3.7	7	15	16	34	3/8	10	3/8
A	K915C3	615 170 116 0	15000	*80x13x9.52	3x1/2x3/8	3/8-24	900	1.21	1.7	3.7	7	15	16	34	3/8	10	3/8
A	K912C3	615 170 111 0	12000	*80x13x9.52	3x1/2x3/8	3/8-24	900	1.21	1.7	3.7	7	15	16	34	3/8	10	3/8
B	K915C25	615 170 115 0	15000	63x13x9.52	2-1/2x1/2x3/8	3/8-24	900	1.21	1.6	3.5	7	15	16	34	3/8	10	3/8
C	K912D3	615 170 113 0	12000	80x20x12.7	3x25/32x1/2	1/2-13	900	1.21	1.7	3.7	7	15	16	34	3/8	10	3/8
D	KC912D3	615 170 491 0	12000	80x20x12.7	3x25/32x1/2	1/2-13	900	1.21	1.3	2.9	7	15	16	34	3/8	10	3/8
E	K912C4	615 170 112 0	12000	100x13x9.52	4x1/2x3/8	3/8-24	900	1.21	1.8	4.0	7	15	16	34	3/8	10	3/8

3/8"-24 UNF - 1/2"-13 UNC



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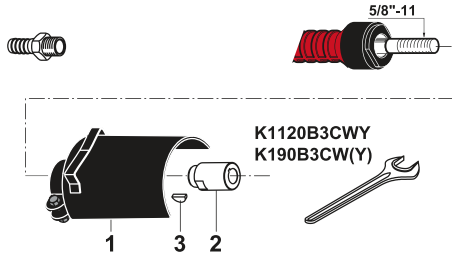
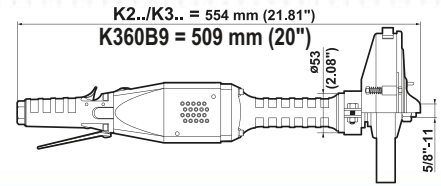
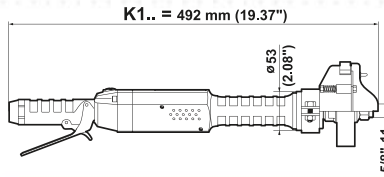
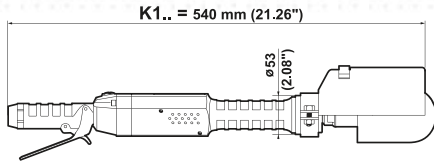
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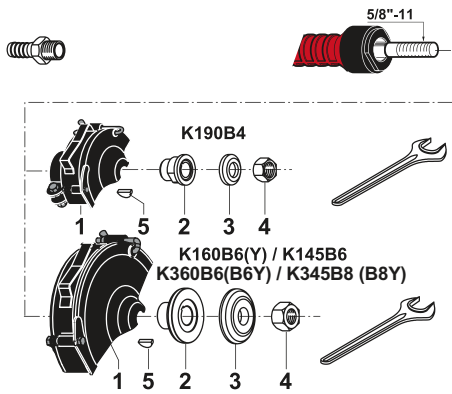
Accessories



K1120B3CWY / K190B3CW(CWY) - Ø 80mm (3")

ACCESSORIES INCLUDED

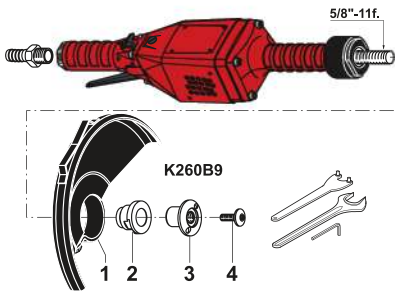
ITEM	PART NO.
• 1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0
1 Wheel guard	615 504 080 0
2 Rear flange	615 503 095 0
3 Woodruff key	615 630 019 0
• Flat wrench, 27mm (1-1/16")	615 801 077 0



K190B4 / K.60B6(B6Y) / K145B6 / K345B8(B8Y)

ACCESSORIES INCLUDED

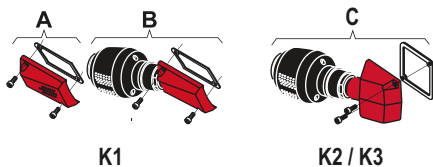
ITEM	K190B4 Ø 100 mm (4")	K.60B6 (B6Y) K145B6 Ø 150 mm (6")	K345B8 (B8Y) Ø 200 mm (8")
• 1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0	615 704 014 0	615 704 014 0
1 Wheel guard	615 504 154 0	615 504 079 0	615 504 078 0
2 Rear flange	615 503 094 0	615 503 028 0	615 503 004 0
3 Front flange	615 502 046 0	615 502 027 0	615 502 007 0
4 Nut	615 608 006 0	615 608 006 0	615 608 006 0
5 Woodruff key	615 630 019 0	615 630 019 0	615 630 019 0
• Flat wrench, 27mm (1-1/16")	615 801 077 0	615 801 077 0	615 801 077 0



K360B9 - Ø 230 mm (9")

ACCESSORIES INCLUDED

ITEM	PART NO.
• 1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0
1 Wheel guard	615 504 161 0
2 Rear flange	615 503 103 0
3 Nut	615 542 104 0
4 Safety screw	615 614 034 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0
• Flat wrench, 27mm (1-1/16")	615 801 077 0
• Hex. key 6 mm	615 802 056 0



OPTIONAL ACCESSORIES

ITEM	K1..	K2.. / K3..
A Silencer kit	615 399 298 0	
B Silencer kit	615 399 459 0	
C Silencer kit		615 399 460 0



Grinders for cone wheels and type 1 wheels

Ø 80mm (3") - Ø 100mm (4") - Ø 150mm (6") - Ø 200mm (8")
- Ø 230mm (9")

1000 to 2700 Watts (1.34 to 3.62 hp) - 4500 to 12000 rpm



A



B



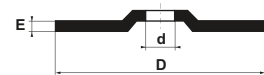
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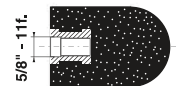
D



E



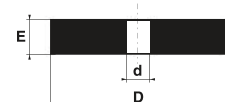
Type 27-42 wheel



Wheel, type 16 - 18 - 18R and 19



F



Type 1 wheel

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD	HOSE INT. Ø	
				DxD	x		W	hp	kg	lb.	AT FREE SPEED	AT MAX OUTPUT	in.	mm		in.	
			rpm	mm	in.	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.
A	K190B3CW	615 170 005 0	9000	80	3	5/8-11	1200	1.61	3.5	7.7	9	19	27	57	1/2	15	5/8
B	K190B4	615 170 004 0	9000	100x25x15.9	4x1x5/8	5/8-11	1200	1.61	3.2	7.0	9	19	27	57	1/2	15	5/8
C	K160B6	615 170 003 0	6000	150x25x15.9	6x1x5/8	5/8-11	1200	1.61	3.5	7.7	6	12	23	48	1/2	15	5/8
C	K145B6	615 170 002 0	4500	150x25x15.9	6x1x5/8	5/8-11	1000	1.34	3.5	7.7	5	10	20	42	1/2	15	5/8
D	K360B6	615 170 010 0	6000	150x25x15.9	6x1x5/8	5/8-11	2700	3.62	5.6	12.3	13	27	41	86	1/2	15	5/8
E	K345B8	615 170 009 0	4500	200x25x15.9	8x1x5/8	5/8-11	2400	3.22	6.3	13.9	8	17	33	70	1/2	15	5/8
F	K360B9	615 170 521 0	6000	230x6.4x22.2	9x1/4x7/8	5/8-11	2700	3.62	5.6	12.3	13	27	41	86	1/2	15	5/8

For USA Market only (to ANSI B186.1)

A	K1120B3CWY	615 170 171 0	12000	80	3	5/8-11	1300	1.74	3.0	6.6	16	34	30	64	1/2	15	5/8
A	K190B3CWY	615 170 172 0	9000	80	3	5/8-11	1200	1.61	3.0	6.6	9	19	27	57	1/2	15	5/8
C	K160B6Y	615 170 173 0	6000	150x25x15.9	6x1x5/8	5/8-11	1200	1.61	3.5	7.7	6	12	23	48	1/2	15	5/8
D	K360B6Y	615 170 177 0	6000	150x25x15.9	6x1x5/8	5/8-11	2700	3.62	5.6	12.3	13	27	41	86	1/2	15	5/8
E	K345B8Y	615 170 178 0	4500	200x25x15.9	8x1x5/8	5/8-11	2400	3.22	6.3	13.9	8	17	33	70	1/2	15	5/8



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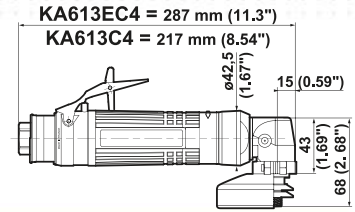
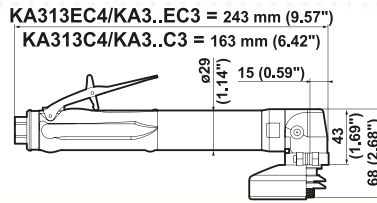
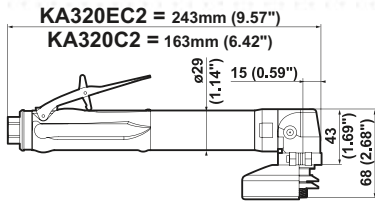
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Accessories



KA320EC2/C2 / KA3..EC3/C3 / KA313EC4/C4C

ACCESSORIES INCLUDED

ITEM	KA3..EC2 KA320C2 Ø 51mm (2")	KA3..EC3 KA3..C3 Ø 76mm (3")	KA313EC4 KA313C4 Ø 100mm (4")
• Exhaust hose L = 0.8m (31")	615 875 106 0	615 875 106 0	615 875 106 0
• 1/4" air hose nipple for 8mm ID hose	615 704 019 0	615 704 019 0	615 704 019 0
1 Wheel guard	615 504 207 0	615 504 155 0	615 504 160 0
2 Flange			615 606 515 0
3 Flange		615 502 064 0	615 502 064 0
4 Flange		615 503 144 0	615 503 144 0
5 Flange	615 502 082 0		
6 Nut	894 016 276 5		
• Pin wrench, 20-3mm		615 802 008 0	615 802 008 0
• Pin wrench	615 802 008 0		
• Flat wrench, 11mm (7/16")	615 801 003 0	615 801 003 0	615 801 003 0

OPTIONAL ACCESSORIES

ITEM	PART NO.
7 Complete silencer kit	615 396 101 0
8 Silencer	615 574 028 0
9 Clippable silencer	615 396 124 0
10 Grease gun includes (24g - 0.8oz)	615 990 149 0
• Grease for bevel gear (1kg - 2.2lb)	615 990 148 0

KA613EC4 / KA613C4 - Ø 100mm (4")

ACCESSORIES INCLUDED

ITEM	KA613EC4 KA613C4
• Exhaust hose L = 1.5m (60")	615 875 113 0
• Clamp	615 873 415 0
• 3/8" air hose nipple for 10mm ID hose	615 704 017 0
1 Wheel guard	615 504 160 0
2 Flange	615 606 515 0
3 Flange	615 502 064 0
4 Flange	615 503 144 0
5 Grease gun includes (24g - 0.8oz)	615 990 149 0
• Pin wrench, 20-3mm	615 802 008 0
• Flat wrench, 11mm (7/16")	615 801 003 0

OPTIONAL ACCESSORIES

ITEM	PART NO.
6 Complete silencer kit	615 396 166 0
7 Clamp	615 873 115 0
8 Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
9 Clippable silencer	615 396 655 0
• Grease for bevel gear (1kg - 2.2lb)	615 990 148 0



Grinders for depressed center wheels and cut-off wheels

Ø 51mm (2") - Ø 76mm (3") - Ø 100mm (4")

375 and 600 Watts (0.5 and 0.8 hp) - 13000 to 20000 rpm



A



B



C



D



E



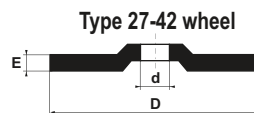
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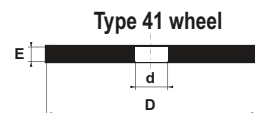
G



H



Type 27-42 wheel



Type 41 wheel

Caution: comply with the speeds recommended by component and abrasive manufacturers

PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD		HOSE INT. Ø	
				D	Exd		W	hp	kg	lb.	AT FREE SPEED	AT MAX OUTPUT	in.	mm	in.	mm		
			rpm	mm	in.	in.					l/s	cfm	l/s	cfm	in.	mm	in.	
A	KA320EC2	615 170 487 0	20000	51x7x9.52	2x1/4x3/8	3/8-24	375	0.5	0.81	1.78	6.5	13.5	10.0	21	1/4	8	5/16	
B	KA320EC3	615 170 046 0	20000	76x7x9.52	3x1/4x3/8	3/8-24	375	0.5	0.81	1.78	6.5	13.5	10.0	21	1/4	8	5/16	
B	KA318EC3	615 170 045 0	18000	76x7x9.52	3x1/4x3/8	3/8-24	375	0.5	0.81	1.78	4.5	9.5	9.5	20	1/4	8	5/16	
C	KA313EC4	615 170 050 0	13000	100x7x9.52 & 15.9	4x1/4x3/8&5/8	3/8-24	375	0.5	0.83	1.83	3.0	6.5	9.0	19	1/4	8	5/16	
D	KA320C2	615 170 488 0	20000	51x7x9.52	2x1/4x3/8	3/8-24	375	0.5	0.64	1.41	6.5	13.5	10.0	21	1/4	8	5/16	
E	KA320C3	615 170 042 0	20000	76x7x9.52	3x1/4x3/8	3/8-24	375	0.5	0.64	1.41	6.5	13.5	10.0	21	1/4	8	5/16	
E	KA318C3	615 170 041 0	18000	76x7x9.52	3x1/4x3/8	3/8-24	375	0.5	0.64	1.41	4.5	9.5	9.5	20	1/4	8	5/16	
F	KA313C4	615 170 049 0	13000	100x7x9.52 & 15.9	4x1/4x3/8&5/8	3/8-24	375	0.5	0.66	1.45	3.0	6.5	9.0	19	1/4	8	5/16	
G	KA613EC4	615 170 138 0	13000	100x7x9.52 & 15.9	4x1/4x3/8&5/8	3/8-24	600	0.8	1.50	3.30	10.0	21.0	15.0	32	3/8	10	3/8	
H	KA613C4	615 170 137 0	13000	100x7x9.52 & 15.9	4x1/4x3/8&5/8	3/8-24	600	0.8	1.20	2.60	10.0	21.0	15.0	32	3/8	10	3/8	



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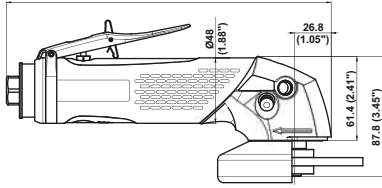
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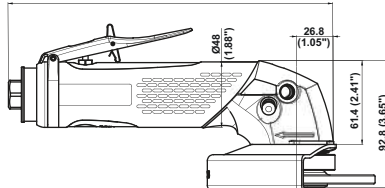


Accessories

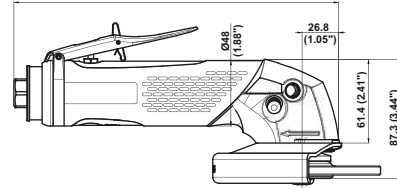
KA16135C4FK = 238mm (9.37")



KA16120A45VK / B45VK = 238mm (9.37")



KA16120A45 / B45 = 238mm (9.37")



KA16135C4FK



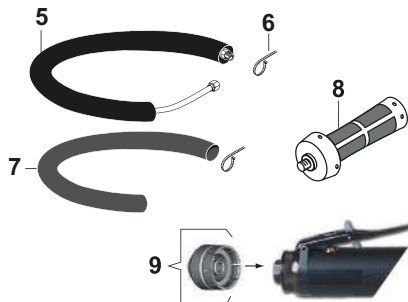
KA16120A45VK

KA16120B45VK



KA16120A45

KA16120B45



10

KA16135C4FK - ø 100mm (4")

ACCESSORIES INCLUDED

ITEM	KA16135C4FK 3/8"-24
• Complete silencer kit	615 396 166 0
• Clamp	615 263 024 0
• Vibration-damping side handle	615 576 066 0
1 Wheel guard	615 504 196 0
2 Flange (Qty 2)	615 606 515 0
3 Rear flange	615 503 515 0
• Pin wrench 20-3mm	615 802 008 0
• Flat wrench, 16mm (5/8")	615 802 512 0

OPTIONAL ACCESSORIES

ITEM	PART NO.
4 Clippable silencer	615 396 957 0
5 Grease gun includes 24g (0.8oz)	615 990 149 0
• Grease for bevel gear (1 kg - 2.2 lb)	615 990 148 0

KA16120A45VK - KA16120B45VK - ø 115mm (4.5")

ACCESSORIES INCLUDED

ITEM	KA16120A45VK M14x2	KA16120B45VK 5/8" -11
• Complete silencer kit	615 396 166 0	615 396 166 0
• Clamp	615 263 024 0	615 263 024 0
• Vibration-damping side handle	615 576 066 0	615 576 066 0
1 Multi-position guard	615 504 195 0	615 504 195 0
2 Auto-balancer	615 990 181 0	615 990 181 0
3 Front flange	615 502 066 0	615 502 067 0
4 Safety screw	615 614 076 0	615 614 076 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0
• Hex. key 6.35mm (1/4")	615 802 057 0	615 802 057 0

KA16120A45 - KA16120B45 - ø 115mm (4.5")

ACCESSORIES INCLUDED

ITEM	KA16120A45 M14x2	KA16120B45 5/8" -11
• Exhaust hose L = 1.5m (60")	615 875 113 0	615 875 113 0
• Clamp	615 263 024 0	615 263 024 0
• 3/8" air hose nipple for 13mm (1/2") ID hose	615 704 027 0	615 704 027 0
• Side handle	615 576 038 0	615 576 038 0
1 Multi-position guard	615 504 198 0	615 504 198 0
2 Rear flange	615 503 134 0	615 503 141 0
3 Front flange	615 502 066 0	615 502 067 0
4 Safety screw	615 614 076 0	615 614 076 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0
• Hex. key 6.35mm (1/4")	615 802 057 0	615 802 057 0

OPTIONAL ACCESSORIES

ITEM	PART NO.
5 Complete silencer kit	615 396 166 0
6 Clamp	615 263 024 0
7 Reinforced cloth-lined exhaust hose L= 0.75m (30")	615 875 116 0
8 Vibration-damping side handle	615 576 066 0
9 Clippable silencer	615 396 957 0
10 Grease gun includes 24g (0.8oz)	615 990 149 0
• Grease for bevel gear (1 kg - 2.2 lb)	615 990 148 0



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Grinders for depressed center wheels, cut-off wheels and flap wheel \varnothing 100mm (4") - \varnothing 115mm (4.5")

1700 Watts (2.3 hp) - 12000 and 13500 rpm

Fixed wheel guard

Multi-position guard



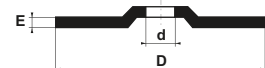
A



B



Type 27-42 wheel



Type 41 wheel



Depressed centre flap wheels



FLAT



CURVED

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY DXEXD		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR CONSUMPTION AT MAX OUTPUT		AIR INLET THREAD	HOSE INT Ø	
				mm	in.		W	hp	kg	lb.	l/s	cfm	l/s	cfm		in.	mm

FIXED WHEEL GUARD

•	KA16135C4FK	615 170 441 0	13500	100x6.4x16	4x1/4x5/8	3/8-24	1700	2.3	1.53	3.4	25	53	35	74	3/8	13	1/2
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MULTI-POSITION GUARD

A	KA16120A45VK	615 170 456 0	12000	115x6.4x22.2	4.5x1/4x7/8	M14x2	1700	2.3	1.87	4.1	20	42	32	68	3/8	13	1/2
A	KA16120B45VK	615 170 458 0	12000	115x6.4x22.2	4.5x1/4x7/8	5/8-11	1700	2.3	1.87	4.1	20	42	32	68	3/8	13	1/2
B	KA16120A45	615 170 455 0	12000	115x6.4x22.2	4.5x1/4x7/8	M14x2	1700	2.3	1.75	3.9	20	42	32	68	3/8	13	1/2
B	KA16120B45	615 170 457 0	12000	115x6.4x22.2	4.5x1/4x7/8	5/8-11	1700	2.3	1.75	3.9	20	42	32	68	3/8	13	1/2



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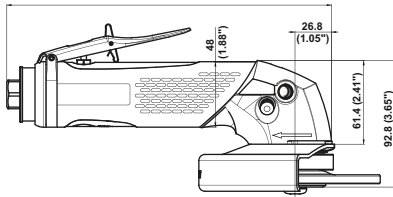
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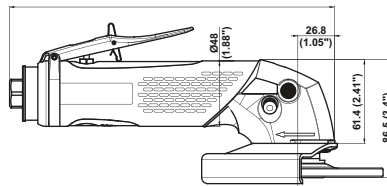
215

Accessories

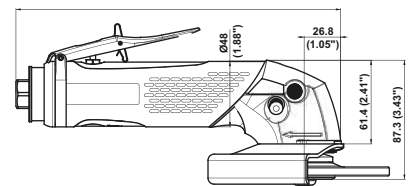
KA16120A5VK / B5VK = 238mm (9.37")



KA16120H5K / H5 = 238mm (9.37")



KA16120A5 / B5 = 238mm (9.37")



KA16120A5VK / B5VK / H5K - ø 127mm (5")

ACCESSORIES INCLUDED

ITEM	KA16120A5VK M14x2	KA16120B5VK 5/8-11	KA16120H5K Hex.
• Complete silencer kit	615 396 166 0	615 396 166 0	615 396 166 0
• Clamp	615 263 024 0	615 263 024 0	615 263 024 0
• Vibration-damping side handle	615 576 066 0	615 576 066 0	615 576 066 0
1 Multi-position guard	615 504 193 0	615 504 193 0	615 504 197 0
2 Auto-balancer	615 990 181 0	615 990 181 0	
3 Rear flange			615 503 124 0
4 Front flange	615 502 066 0	615 502 067 0	615 502 062 0
5 Safety screw	615 614 076 0	615 614 076 0	615 616 101 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0	
• Hex. key 6mm			615 802 056 0
• Hex. key 6.35mm (1/4")	615 802 057 0	615 802 057 0	

KA16120A5 / B5 / H5 - ø 127mm (5")

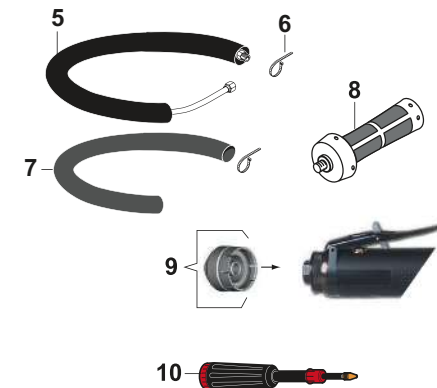
ACCESSORIES INCLUDED

ITEM	KA16120A5 M14x2	KA16120B5 5/8-11	KA16120H5 Hex.
• Exhaust hose L = 1.5m (60")	615 875 113 0	615 875 113 0	615 875 113 0
• Clamp	615 263 024 0	615 263 024 0	615 263 024 0
• 3/8" air hose nipple for 13mm (1/2") ID hose	615 704 027 0	615 704 027 0	615 704 027 0
• Side handle	615 576 038 0	615 576 038 0	615 576 038 0
1 Multi-position guard	615 504 197 0	615 504 197 0	615 504 197 0
2 Rear flange	615 503 134 0	615 503 141 0	615 503 124 0
3 Front flange	615 502 066 0	615 502 067 0	615 502 062 0
4 Safety screw	615 614 076 0	615 614 076 0	615 616 101 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0	
• Hex. key 6mm			615 802 056 0
• Hex. key 6.35mm (1/4")	615 802 057 0	615 802 057 0	



OPTIONAL ACCESSORIES

ITEM	PART NO.
5 Complete silencer kit	615 396 166 0
6 Clamp	615 263 024 0
7 Reinforced cloth-lined exhaust hose L = 0.75 m (30")	615 875 116 0
8 Vibration-damping side handle	615 576 066 0
9 Clippable silencer	615 396 957 0
10 Grease gun includes 24g (0.8oz)	615 990 149 0
• Grease for bevel gear (1kg - 2.2lb)	615 990 148 0



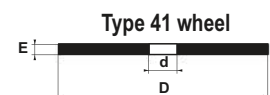
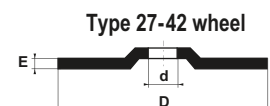
Grinders for depressed center wheels, cut-off wheels and flap wheels

Ø 127mm (5")

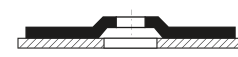
1700 Watts (2.3 hp) - 12000 rpm

Quick wheel change

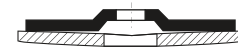
Multi-position guard



Depressed centre flap wheels



FLAT

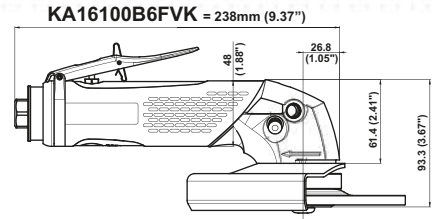
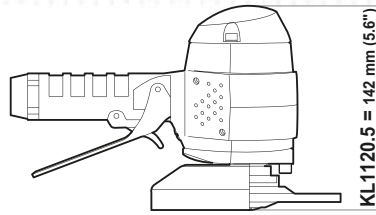
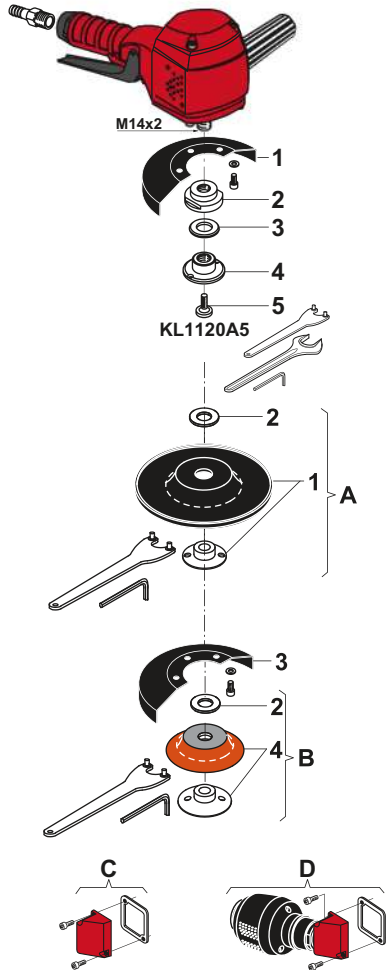


CURVED

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY DXEXD		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR CONSUMPTION AT MAX OUTPUT		AIR INLET THREAD		HOSE INT Ø	
				mm	in.		W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in	
A	KA16120A5VK	615 170 438 0	12000	127x6.4x22.2	5x1/4x7/8	M14x2	1700	2.3	1.90	4.2	20	42	32	68	3/8	13	1/2	
A	KA16120B5VK	615 170 454 0	12000	127x6.4x22.2	5x1/4x7/8	5/8-11	1700	2.3	1.90	4.2	20	42	32	68	3/8	13	1/2	
A	KA16120H5K	615 170 434 0	12000	127x6.4x22.2	5x1/4x7/8	HEX	1700	2.3	1.77	3.9	20	42	32	68	3/8	13	1/2	
B	KA16120A5	615 170 437 0	12000	127x6.4x22.2	5x1/4x7/8	M14x2	1700	2.3	1.77	3.9	20	42	32	68	3/8	13	1/2	
B	KA16120B5	615 170 439 0	12000	127x6.4x22.2	5x1/4x7/8	5/8-11	1700	2.3	1.77	3.9	20	42	32	68	3/8	13	1/2	
B	KA16120H5	615 170 444 0	12000	127x6.4x22.2	5x1/4x7/8	HEX	1700	2.3	1.77	3.9	20	42	32	68	3/8	13	1/2	

Accessories



KL1120A5 - ø 127mm (5")

ACCESSORIES INCLUDED

ITEM	KL1120A5 M14x2 / 5/8"-11
• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0
1 Wheel guard	615 504 086 0
2 Rear flange	615 503 096 0
3 Washer for wheels thickness <2mm	615 642 052 0
4 Nut	615 606 032 0
5 Safety screw	615 614 033 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0
• Flat wrench, 27mm (1-1/16")	615 801 077 0
• Hex. key 6mm	615 802 056 0

OPTIONAL ACCESSORIES

ITEM	KL1120A M14x2
A Soft sanding kit for abrasive disc (including item 1-2)	615 399 251 0
1 Ventilated backing pad with nut M14 (max. 12000 rpm)	615 990 127 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0
• Hex key 8mm (5/16")	615 802 061 0
2 M14 Spacer	615 641 027 0

ITEM	KL1120A M14x2
3 Wheel guard	615 504 086 0
B Sanding kit for semirigid disc (including item 4-2)	615 399 203 0
4 Backing pad with nut M14 (max. 12000 rpm)	615 990 129 0
2 M14 Spacer	615 641 027 0
• Hex key 8mm (5/16")	615 802 061 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0

OTHER OPTIONAL ACCESSORIES

ITEM	PART NO.
C Silencer kit	615 396 117 0
D Silencer kit	615 399 462 0

KA16100B6FVK - ø 150mm (6")

ACCESSORIES INCLUDED

ITEM	KA16100B6FVK 5/8"-11
• Complete silencer kit	615 396 166 0
• Vibration-damping side handle	615 576 066 0
• Clamp	615 263 024 0
1 Wheel guard	615 504 202 0
2 Auto-balancer	615 990 181 0
3 Front flange	615 502 067 0
4 Safety screw	615 614 076 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0
• Hex. key 6.35mm (1/4")	615 802 057 0

OPTIONAL ACCESSORIES

ITEM	KA16100B6FVK
5 Clippable silencer	615 396 957 0
	615 990 149 0
	615 990 148 0



Grinders for depressed center wheels, cut-off wheels and flap wheels Ø 127mm (5") - Ø 150mm (6")

750 and 1600 Watts (1 and 2.15 hp) - 10000 and 12000 rpm

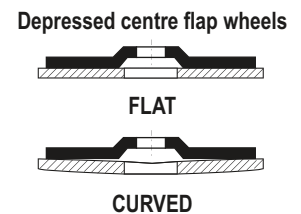
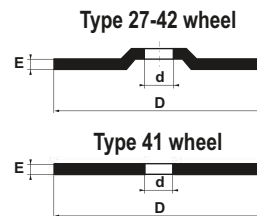
Fixed wheel guard



A



B



Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY DXEXD		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR CONSUMPTION AT MAX OUTPUT		AIR INLET THREAD		HOSE INT Ø	
				mm	in.		in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in
A	KL1120A5	615 170 013 0	12000	127x6.4x22.2	5x1/4x7/8	M14x2	750	1.0	2.3	5.0	16	34	16	34	3/8	10	3/8	
B	KA16100B6FVK	615 170 470 0	10000	150x7.0x22.2	6x1/4x7/8	5/8-11	1600	2.15	1.9	4.2	20	42	32	68	3/8	13	1/2	



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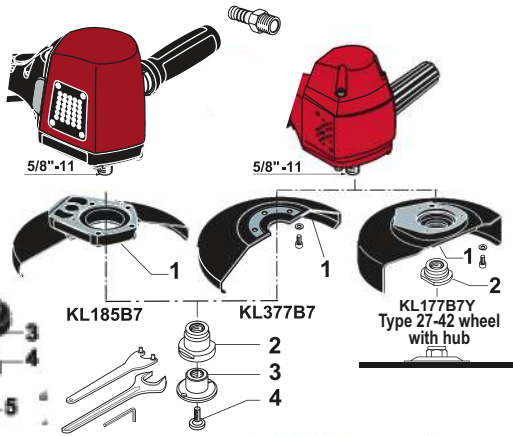
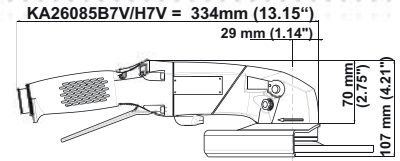
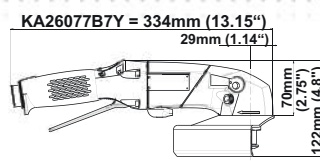
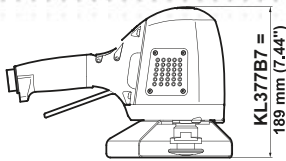
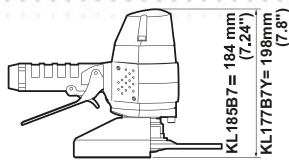
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Accessories



KL185B7 / KL377B7 / KL177B7Y - Ø 180mm (7")

ACCESSORIES INCLUDED

ITEM	KL185B7 Ø 180mm (7")	KL377B7 / V Ø 180mm (7")	KL177B7Y Ø 180mm (7")
• 1/2" air hose nipple for 16mm (5/8") ID hose		615 704 014 0	
• 1/2" air hose nipple for 13mm (1/2") ID hose	615 704 016 0		615 704 016 0
1 Wheel guard	615 504 095 0	615 504 182 0	615 504 169 0
2 Rear flange for model B7	615 503 103 0	615 503 103 0	615 503 150 0
3 Auto-balancer for model B7V		615 503 146 0	
4 Nut	615 542 104 0	615 542 104 0	615 608 049 0
5 Safety screw	615 614 034 0	615 614 034 0	615 614 034 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0	
• Flat wrench, 27mm (1-1/16")	615 801 077 0	615 801 077 0	615 801 077 0
• Hex. key 6mm	615 802 056 0	615 802 056 0	615 802 056 0

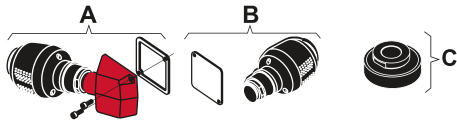
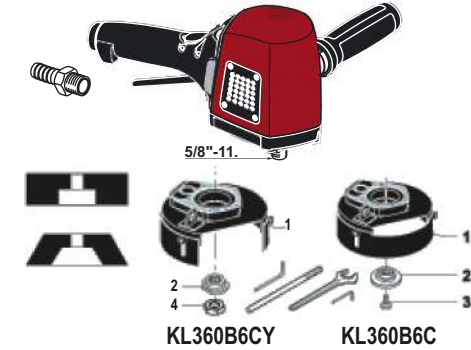
KL360B6C / KL360B6CY - Ø 150mm (6")

ACCESSORIES INCLUDED

ITEM	KL360B6C	KL360B6CY
• 1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0	615 704 014 0
1 Wheel guard	615 504 181 0	615 504 178 0
2 Rear flange	615 503 116 0	615 503 150 0
3 Safety screw	615 614 034 0	
4 Nut		615 608 049 0
• Lever		615 595 202 0
• Flat wrench. 27mm (11/16")	615 801 077 0	
• Hex. key	615 802 056 0	615 802 061 0

OTHER OPTIONAL ACCESSORIES

ITEM	KL185B7	KL377B7	KL177B7Y
A Silencer	615 399 462 0		615 399 462 0
B Silencer		615 399 463 0	
C Auto-Balancer	615 503 146 0		



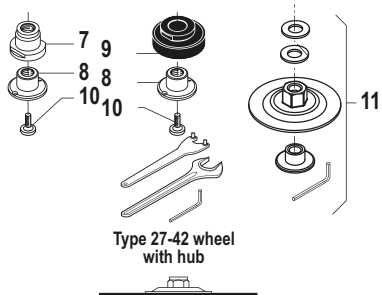
KA26085B7V / KA26085H7V / KA26077B7Y - Ø 180mm (7")

ACCESSORIES INCLUDED

ITEM	KA26085B7V	KA26085H7V	KA26077B7Y
• Vibration damping side handle	615 576 066 0	615 576 066 0	615 576 066 0
• 1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0	615 704 014 0	615 704 014 0
• Rotating exhaust kit	615 397 743 5	615 397 743 5	615 397 743 5
• Rotating handle support kit	615 397 741 5	615 397 741 5	615 397 741 5
1 Wheel guard kit	615 504 211 5	615 504 211 5	615 504 213 5
2 Auto-balancer	615 990 181 0	615 990 194 0	
3 Rear flange		615 503 164 0	615 503 153 0
4 Front flange	615 502 067 0	615 502 085 0	
5 Nut 5/8"			615 608 049 0
6 Safety screw	615 614 076 0		615 614 034 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0	
• Hex key	615 802 056 0	615 802 056 0	615 802 056 0

OPTIONAL ACCESSORIES

ITEM	KL177B7Y KA26077B7Y
7 Rear flange	615 503 103 0
8 Nut	615 542 104 0
9 Rear flange balancer	615 503 146 0
10 Safety screw	615 614 034 0
11 Wheel adaptor	C087920
• Pin wrench	615 802 010 0
• Flat wrench	615 801 077 0
• Hex key	615 802 056 0
	615 990 149 0
	615 990 148 0



12

Grinders for depressed center wheels, cut-off wheels and flap wheels

Ø 180mm (7")

1200 to 3000 Watts (1.61 to 4.02 hp) - 6000 to 8500 rpm



A



B



C



D

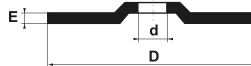


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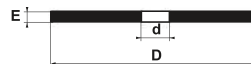


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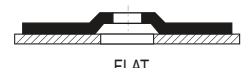
Type 27-42 wheel



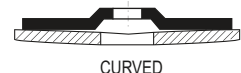
Type 41 wheel



Depressed centre flap wheels



FLAT



CURVED

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD		HOSE INT. Ø	
				D	Exd		W	hp	kg	lb.	AT FREE SPEED	AT MAX OUTPUT	in.	mm	in.	mm	in.	
			rpm	mm	in.	in.	W	hp	kg	lb.	l/s	cfm	l/s	cfm	in.	mm	in.	
VERTICAL GRINDERS																		
A	KL185B7	615 170 012 0	8500	180x9.5x22.2	7x3/8x7/8	5/8-11	1200	1.61	2.8	6.1	16	34	27	57	1/2	13	1/2	
B	KL377B7	615 170 341 0	7700	180x9.5x22.2	7x3/8x7/8	5/8-11	3000	4.02	4.2	9.2	19	40	46	97	1/2	15	5/8	
For USA Market only (to ANSI B186.1)																		
C	KL177B7Y	615 170 182 0	7700	180x9.5x22.2	7x3/8x7/8	5/8-11	1200	1.61	2.8	6.1	8	17	25	53	1/2	15	5/8	
LOW VIBRATION - VERTICAL GRINDERS																		
B	KL377B7V	615 170 472 0	7700	180x9.5x22.2	7x3/8x7/8	5/8-11	3000	4.02	4.3	9.4	19	40	46	97	1/2	15	5/8	
VERTICAL GRINDERS for cup wheels																		
D	KL360B6C	615 170 337 0	6000	150	6	5/8-11	2400	3.22	4.2	9.2	9	19	39	82	1/2	15	5/8	
For USA Market only (to ANSI B186.1)																		
D	KL360B6CY	615 170 351 0	6000	150	6	5/8-11	2900	3.89	4.4	9.7	12	25	43	91	1/2	15	5/8	
ANGLE GRINDERS																		
E	KA26085B7V	615 170 476 0	8500	180x9.5x22.2	7x3/8x7/8	5/8-11	2100	2.82	2.7	5.9	17	36	36	77	1/2	15	5/8	
E	KA26085H7V	615 170 489 0	8500	180x9.5x22.2	7x3/8x7/8	HEX.	2100	2.82	2.7	5.9	17	36	36	77	1/2	15	5/8	
For USA Market only (to ANSI B186.1)																		
F	KA26077B7Y	615 170 478 0	7700	180x9.5x22.2	7x3/8x7/8	5/8-11	2100	2.82	2.7	6.6	16	33	32	69	1/2	15	5/8	



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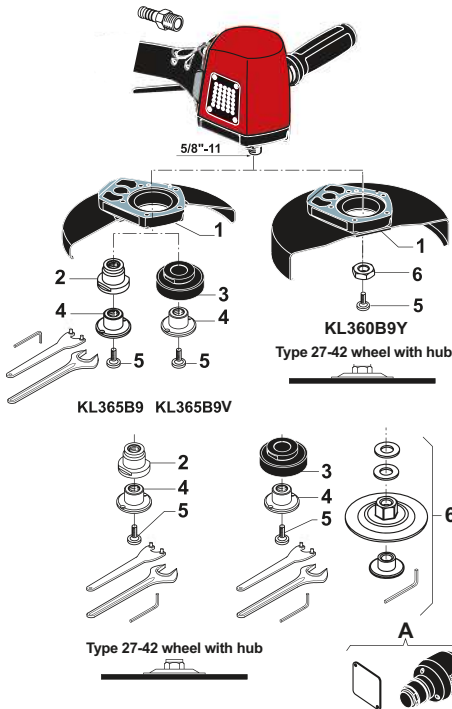
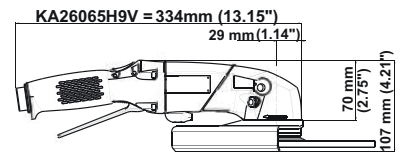
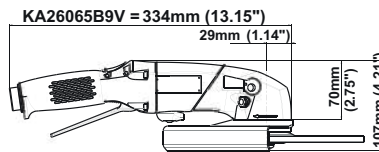
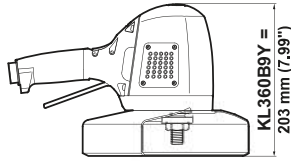
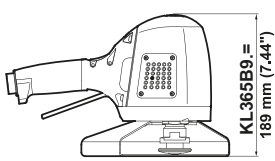
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Accessories



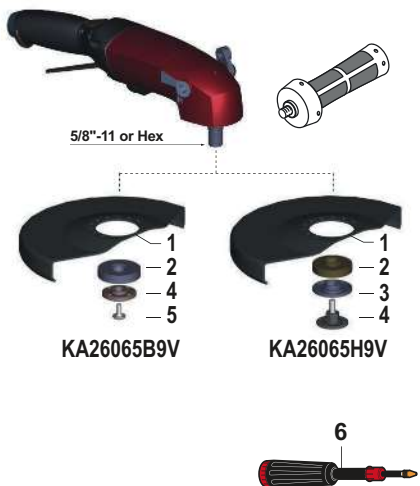
KL365B9 / KL365B9V / KL360B9Y - Ø 230mm (9")

ACCESSORIES INCLUDED

ITEM	KL365B9 KL365B9V	KL360B9Y
• 1/2" air hose nipple for 16 mm (5/8") ID hose	615 704 014 0	615 704 014 0
1 Wheel guard	615 504 183 0	615 504 180 0
2 Rear flange for model B9	615 503 103 0	
3 Auto-balancer for model B9V	615 503 146 0	
4 Nut	615 542 104 0	
5 Safety screw	615 614 034 0	615 614 034 0
6 Nut		615 608 049 0
• Flat wrench, 27mm (1-1/16")	615 801 077 0	615 801 077 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0	
• Hex. Key 6mm	615 802 056 0	615 802 056 0

OPTIONAL ACCESSORIES

ITEM	KL365B9	KL360B9Y
2 Rear flange		615 503 103 0
3 Auto-balancer		615 503 146 0
4 Nut		615 542 104 0
5 Safety screw		615 614 034 0
6 Wheel adaptor		C087920
• Pin wrench, 35mm (1-3/8")		615 802 010 0
• Flat wrench, 27mm (1-1/16")		615 801 077 0
• Hex. Key 6mm		615 802 056 0
A Silencer kit	615 399 463 0	615 399 463 0



KA26065B9V / KA26065H9V - Ø 230mm (9")

ACCESSORIES INCLUDED

ITEM	KL365B9	KL360B9Y
• Vibration damping side handle	615 576 066 0	615 576 066 0
• 1/2" air hose nipple for 16mm (5/8") ID hose	615 704 014 0	615 704 014 0
• Rotating exhaust kit	615 397 743 5	615 397 743 5
• Rotating handle support kit	615 397 741 5	615 397 741 5
1 Wheel guard kit	615 504 212 5	615 504 212 5
2 Auto-balancer	615 990 181 0	615 990 194 0
3 Rear flange		615 503 164 0
4 Front flange	615 502 067 0	615 502 085 0
5 Safety screw	615 614 076 0	
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0
• Hex key	615 802 056 0	615 802 056 0

OPTIONAL ACCESSORIES

ITEM	PART NO.
6 Grease gun includes 24a (0.8oz)	615 990 149 0
	615 990 148 0



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Grinders for depressed center wheels ø 230mm (9")

2100 and 2900 Watts (2.82 and 3.89 hp) - 6000 and 6500 rpm



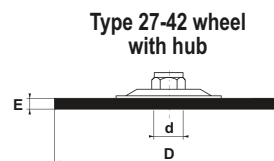
A



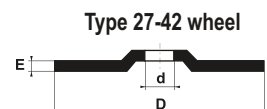
B



C



Type 27-42 wheel
with hub



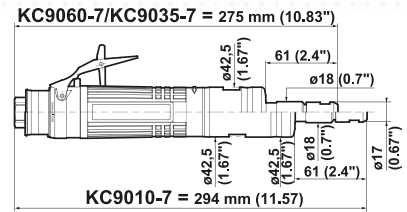
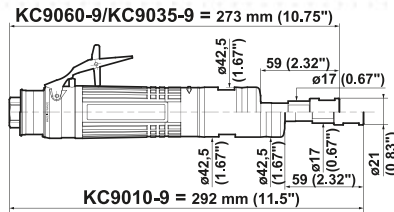
Type 27-42 wheel

Type 41 wheel

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	WHEEL MAX CAPACITY		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD		HOSE INT. Ø	
				DxExd			W	hp	kg	lb.	AT FREE SPEED	AT MAX OUTPUT	in.	mm	in.			
			rpm	mm	in.	in.					l/s	cfm	l/s	cfm	in.	mm	in.	
VERTICAL GRINDERS																		
A	KL365B9	615 170 338 0	6500	230x6.4x22.2	9x1/4x7/8	5/8-11	2900	3.89	4.4	9.7	13	27	44	93	1/2	15	5/8	
For USA Market only (to ANSI B186.1)																		
B	KL360B9Y	615 170 350 0	6000	230x6.4x22.2	9x1/4x7/8	5/8-11	2900	3.89	4.4	9.7	12	25	43	91	1/2	15	5/8	
LOW VIBRATION - VERTICAL GRINDERS																		
A	KL365B9V	615 170 474 0	6500	230x6.4x22.2	9x1/4x7/8	5/8-11	2900	3.89	4.5	9.9	13	27	44	93	1/2	15	5/8	
ANGLE GRINDERS																		
C	KA26065B9V	615 170 477 0	6500	230x6.4x22.2	9x1/4x7/8	5/8-11	2100	2.82	2.9	6.4	21	44	38	80	1/2	15	5/8	
C	KA26065H9V	615 170 490 0	6500	230x6.4x22.2	9x1/4x7/8	HEX.	2100	2.82	2.9	6.4	21	44	38	80	1/2	15	5/8	

Accessories



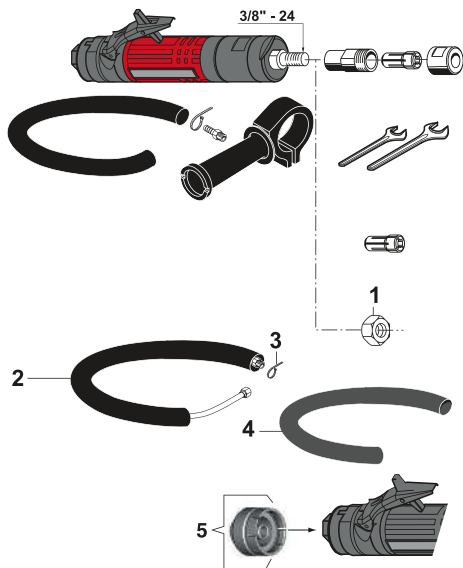
KC9060-9 / KC9035-9 / KC9010-9

ACCESSORIES INCLUDED

	PART NO.
• Series 200 resilient collet, ϕ 5.55 to 6.35mm (1/4")	615 526 063 0
• Exhaust hose L = 1.5m (60")	615 875 113 0
• Clamp	615 873 415 0
• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0
• Flat wrench, 14mm	615 801 005 0
• Flat wrench, 19mm (3/4")	615 801 076 0
• Side handle	615 576 068 0

OPTIONAL ACCESSORIES

ITEM	PART NO.
• Series 200 resilient collet, ϕ 5.55 to 6.35mm (1/4")	615 526 063 0
• Series 200 resilient collet, ϕ 5.2 to 6mm	615 526 062 0
• Series 200 resilient collet, ϕ 7.2 to 8mm (5/16")	615 526 064 0
• Series 200 resilient collet, ϕ 8.7 to 9.5mm (3/8")	615 526 065 0
1 Nut 3/8" - 24	615 608 044 0
2 Complete silencer kit	615 396 166 0
3 Clamp	615 873 115 0
4 Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
5 Clippable silencer	615 396 655 0



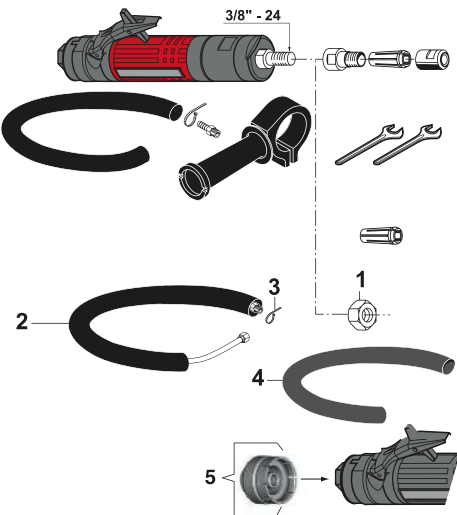
KC9060-7 / KC9035-7 / KC9010-7

ACCESSORIES INCLUDED

	PART NO.
• CNOMO collet ϕ 6mm	615 526 049 0
• Exhaust hose L = 1.5m (60")	615 875 113 0
• Clamp	615 873 415 0
• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0
• Flat wrench, 14mm (Qty 2)	615 801 005 0
• Side handle	615 576 068 0

OPTIONAL ACCESSORIES

ITEM	PART NO.
• CNOMO collet ϕ 3mm	615 526 048 0
• CNOMO collet ϕ 6.35mm (1/4")	615 526 050 0
• CNOMO collet ϕ 8mm (5/16")	615 526 051 0
1 Nut 3/8" - 24	615 608 044 0
2 Complete silencer kit	615 396 166 0
3 Clamp	615 873 115 0
4 Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
5 Clippable silencer	615 396 655 0



Sanders for expandable wheels, flap wheels, brushes...

900 Watts (1.21 hp) - 1000 to 5500 rpm

Supplied with series 200 Erickson collet, Ø 5.55 to 6.35mm (1/4")

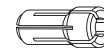


A



B

Series 200 Erickson collet



Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET MAX CAPACITY		POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD		HOSE INT. Ø	
				rpm	mm	in.	W	hp	kg	lb.	AT FREE SPEED		AT MAX. POWER		in.	mm	in.
A	KC9060-9	615 170 166 0	5500	9.5	3/8	900	1.21	1.38	3.0	10	21	16	34	3/8	10	3/8	
A	KC9035-9	615 170 167 0	3500	9.5	3/8	900	1.21	1.38	3.0	6	13	14	30	3/8	10	3/8	
B	KC9010-9	615 170 168 0	1000	9.5	3/8	900	1.21	1.45	3.2	10	21	16	34	3/8	10	3/8	

Sanders for expandable wheels, flap wheels, brushes...

900 Watts (1.21 hp) - 1000 to 5500 rpm

Supplied with CNOMO collet, Ø 6mm



A



B

CNOMO type collet



Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	COLLET MAX CAPACITY		POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD		HOSE INT. Ø	
				rpm	mm	in.	W	hp	kg	lb.	AT FREE SPEED		AT MAX. POWER		in.	mm	in.
A	KC9060-7	615 170 122 0	5500	8	5/16	900	1.21	1.38	3.0	10	21	16	34	3/8	10	3/8	
A	KC9035-7	615 170 121 0	3500	8	5/16	900	1.21	1.38	3.0	6	13	14	30	3/8	10	3/8	
B	KC9010-7	615 170 120 0	1000	8	5/16	900	1.21	1.45	3.2	10	21	16	34	3/8	10	3/8	



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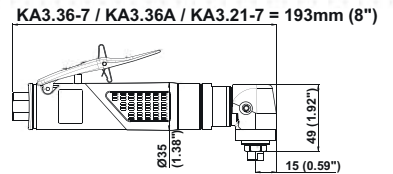
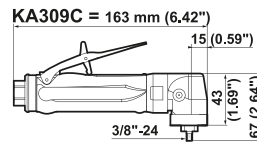
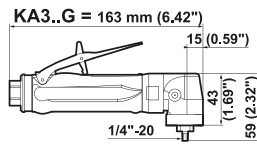
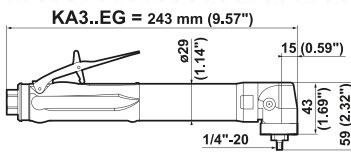
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Desoutter



225

Accessories



KA3..EG / KA3..G / KA309C

ACCESSORIES INCLUDED

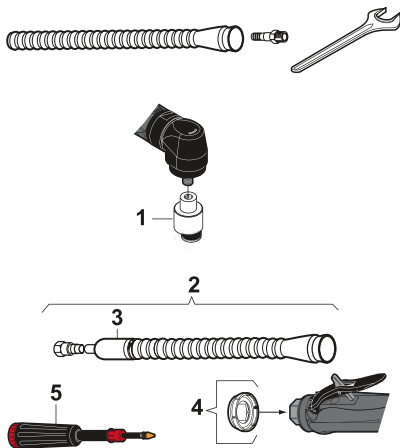
	PART NO.
• Exhaust hose L = 0.8m (31")	615 875 106 0
• 1/4" air hose nipple for 8mm (5/16") ID hose	615 704 019 0
• Flat wrench, 11mm (7/16")	615 801 003 0

OPTIONAL ACCESSORIES

ITEM	KA309C 3/8"-24
1 Excentric sanding head for 1" pad	615 396 251 0

OTHER OPTIONAL ACCESSORIES

ITEM	PART NO.
2 Complete silencer kit	615 396 101 0
3 Silencer	615 574 028 0
4 Clippable silencer	615 396 124 0
5 Grease gun (capacity 24g - 0.8oz)	615 990 149 0
• Grease for bevel gear (1kg - 2.2lb)	615 990 148 0



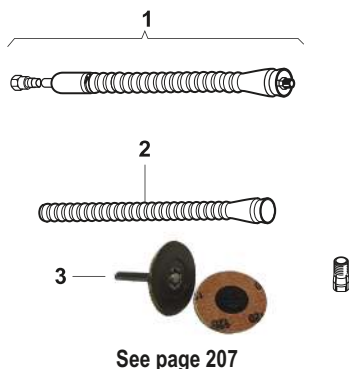
KA3.36A / KA3.36-7 / KA3.21-7

ACCESSORIES INCLUDED

	KA3.36A	KA3.36-7/KA3.21-7
• Collet ø 6mm	-	615 526 079 0
• 1/4" air hose nipple for 6mm (1/4") ID hose	615 705 009 0	615 705 009 0
• Flat wrench, 10mm (3/8")	-	615 801 002 0
• Flat wrench, 14mm	-	615 801 005 0

OPTIONAL ACCESSORIES

ITEM	KA3.36A	KA3.36-7/KA3.21-7
1 Complete silencer kit	615 399 423 0	615 399 423 0
2 Exhaust hose L = 0.8m (31")	615 875 106 0	615 875 106 0
3 Backing pad ø 50mm (31/32")		615 804 098 0
• Collet ø 2mm		615 526 066 0
• Collet ø 2.5mm		615 526 068 0
• Collet ø 3mm		615 526 069 0
• Collet ø 3.5mm		615 526 070 0
• Collet ø 4mm (5/32")		615 526 071 0
• Collet ø 4.5mm		615 526 073 0
• Collet ø 5mm		615 526 075 0
• Collet ø 5.5mm		615 526 077 0
• Collet ø 6mm		615 526 079 0
• Collet ø 6.5mm (1/4")		615 526 081 0
• Collet ø 7mm		615 526 083 0
• Collet ø 7.5mm		615 526 084 0
• Collet ø 8mm (5/16")		615 526 088 0



Sanders for abrasive discs

220 to 375 Watts (0.3 to 0.5 hp) - 2100 to 20000 rpm

Supplied with 1/4", 3/8" or M14 threaded spindle only



A

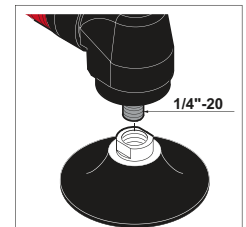


B



C

3/8"-24



1/4"-20



D

M14x2



E

CNOMO collet, Ø 6mm

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	ABRASIVE OR COLLET MAX CAPACITY		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD	HOSE INT. Ø	
				rpm	ø mm		ø in.	W	hp	kg	lb.	l/s	cfm	l/s		cfm	in.
A	KA320EG	615 170 048 0	20000	76	3	1/4-20	375	0.5	0.67	1.47	6.5	13.5	10	21	1/4	8	5/16
A	KA312EG	615 170 040 0	12000	76	3	1/4-20	375	0.5	0.67	1.47	3.0	6.5	9	19	1/4	8	5/16
B	KA320G	615 170 044 0	20000	76	3	1/4-20	375	0.5	0.50	1.10	6.5	13.5	10	21	1/4	8	5/16
B	KA318G	615 170 310 0	18000	76	3	1/4-20	375	0.5	0.50	1.10	3.0	6.5	9	19	1/4	8	5/16
B	KA312G	615 170 038 0	12000	76	3	1/4-20	375	0.5	0.50	1.10	3.0	6.5	9	19	1/4	8	5/16
B	KA309G	615 170 204 0	9000	76	3	1/4-20	220	0.3	0.50	1.10	2.2	4.7	8	17	1/4	8	5/16
C	KA309C	615 170 203 0	9000	76	3	3/8-24	220	0.3	0.50	1.10	2.2	4.7	8	17	1/4	8	5/16
LOW SPEED SANDERS																	
D	KA3.36A	615 170 518 0	3600			M14x2	300	0.4	0.65	1.4	9.5	20.0	-	-	1/4	6	1/4
E	KA3.36-7	615 170 516 0	3600	cap. 8mm (5/16")			300	0.4	0.65	1.4	9.5	20.0	-	-	1/4	6	1/4
E	KA3.21-7	615 170 517 0	2100	cap. 8mm (5/16")			300	0.4	0.65	1.4	9.5	20.0	-	-	1/4	6	1/4

1/4"-20 UNC - 3/8"-24 UNF



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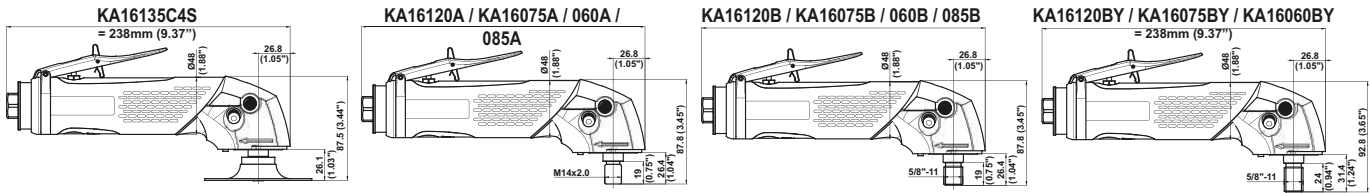
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Accessories



KA16135C4S / KA16120/075/060A-B-BY / KA16085A-B

ACCESSORIES INCLUDED

ITEM	KA16135C4S 3/8"-24	KA16120	KA16085 KA16075/060
• Exhaust hose L= 1.5m (60")	615 875 113 0	615 875 113 0	615 875 113 0
• Clamp	615 263 024 0	615 263 024 0	615 263 024 0
• 3/8" air hose nipple for 13mm ID hose	615 704 027 0	615 704 027 0	615 704 027 0
• Side handle			615 576 038 0
• Flat wrench, 17mm (1-1/16")	615 801 032 0	615 801 032 0	615 801 032 0
• Vibration-damping side handle	615 576 066 0	615 576 066 0	
1 Flange	615 606 515 0		
2 Backing with nut	615 990 167 0		
• Pin wrench, 20-3mm	615 802 008 0		

OPTIONAL ACCESSORIES

SANDING WITH STANDARD ABRASIVE DISC Ø 127MM (5")		KA16120A KA16085/075/060A	KA16120B KA16085/075/060B
ITEM	M14x2	5/8"-11	
A Sanding kit for abrasive disc (including items 4-5)	615 396 072 0	615 396 072 0	
3 Finger guard	615 504 145 0	615 504 145 0	
4 Ventilated backing pad with nut M14 & 5/8" (max. 12.000 rpm)	615 990 127 0	615 990 127 0	
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0	
• Hex key 8mm (5/16")	615 802 061 0	615 802 061 0	
5 M14 Spacer	615 641 027 0		
5 5/8" Spacer			615 642 050 0

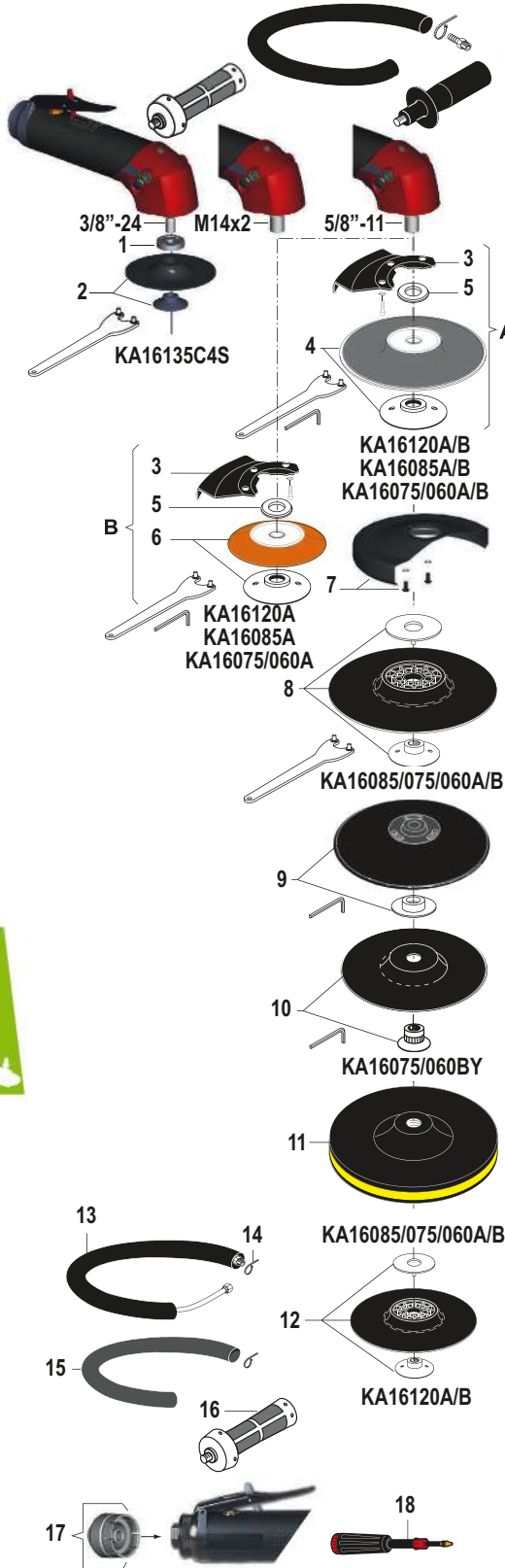
SANDING WITH SEMIRIGID DISC Ø 127MM (5")		KA16120A KA16085/075/060A
ITEM	M14X2	
B Sanding kit for semirigid disc (including items 5-6)		615 396 075 0
3 Finger guard		615 504 145 0
6 Backing pad with nut M14 (max. 12.000 rpm)		615 990 129 0*
• Pin wrench, 35mm (1-3/8")		615 802 010 0
• Hex key 8mm (5/16")		615 802 061 0
5 M14 Spacer		615 641 027 0

SANDING		KA16085/075/060A	KA16085/075/060B	KA16075/060BY
ITEM	M14x2	5/8"-11	5/8"-11	
7 Sanding guard ø 180mm (7")	615 504 205 0*	615 504 205 0*	615 504 205 0*	
8 Soft backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8500 rpm)	615 990 133 0*	615 990 133 0*		
8 Rigid backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8.500 rpm)	615 990 134 0*	615 990 134 0*		
• Pin wrench 35mm (1-3/8")	615 802 010 0	615 802 010 0		
9 Spiracool pad whit nut ø 180mm (7") (max.8500 rpm)				S091836
10 Complete kit ø 180mm (7") (max.7000 rpm) for KA16060BY				K129587
• Hex key 8mm (5/16")				615 802 061 0
11 Rigid velcro-backed backing pad ø 180mm (7") (max.8700 rpm)		615 990 146 0		
11 Rigid velcro-backed backing pad ø 150mm (6") (max.10000 rpm)		615 990 138 0		

* Spare part: Nut 606.22 for M14 model and 608.29 for 5/8"-11

OTHER OPTIONAL ACCESSORIES

ITEM	PART NO.
12 Semi-hard backing pad with nut M14 & 5/8" - ø 127mm (5") (max. 12.000 rpm)	615 804 074 0
13 Complete silencer kit	615 396 166 0
14 Clamp	615 263 024 0
15 Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
16 Vibration-damping side handle	615 576 066 0
17 Clippable silencer	615 396 957 0
18 Clippable silencer	615 990 149 0
18 Clippable silencer	615 990 148 0



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Sanders for abrasive discs

Ø 100mm (4") - Ø 127mm (5") - Ø 150mm (6") - Ø 180mm (7")

1350 to 1700 Watts (1.83 to 2.3 hp) - 6000 to 13500 rpm

Supplied with M14 or 5/8" threaded spindle only



A



B



C D



C D



Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD		HOSE INT. Ø	
					rpm	in.	W	hp	kg	lb.	AT FREE SPEED		AT MAX. SPEED		in.	mm
A	KA16135C4S	615 170 446 0	13500	3/8-24	1 700	2.28	1.48	3.3	25	53	35	74	3/8	13	1/2	
B	KA16120A	615 170 435 0	12000	M14x2	1 700	2.28	1.39	3.0	20	42	32	68	3/8	13	1/2	
B	KA16120B	615 170 445 0	12000	5/8-11	1 700	2.28	1.39	3.0	20	42	32	68	3/8	13	1/2	
C/D	KA16085A	615 170 468 0	8500	M14x2	1 700	2.28	1.39	3.0	20	42	32	68	3/8	13	1/2	
C/D	KA16085B	615 170 469 0	8500	5/8-11	1 700	2.28	1.39	3.0	20	42	32	68	3/8	13	1/2	
C/D	KA16075A	615 170 448 0	7500	M14x2	1 500	2.01	1.39	3.0	15	32	27	57	3/8	13	1/2	
C/D	KA16075B	615 170 452 0	7500	5/8-11	1 500	2.01	1.39	3.0	15	32	27	57	3/8	13	1/2	
C/D	KA16060A	615 170 449 0	6000	M14x2	1 350	1.81	1.41	3.1	11	23	23	49	3/8	13	1/2	
C/D	KA16060B	615 170 453 0	6000	5/8-11	1 350	1.81	1.41	3.1	11	23	23	49	3/8	13	1/2	

For USA Market only (to ANSI B186.1)

B	KA16120BY	615 170 447 0	12000	5/8-11	1 700	2.28	1.41	3.1	20	42	32	68	3/8	13	1/2
D	KA16075BY	615 170 450 0	7500	5/8-11	1 500	2.01	1.41	3.1	15	32	27	57	3/8	13	1/2
D	KA16060BY	615 170 451 0	6000	5/8-11	1 350	1.81	1.41	3.1	11	23	23	49	3/8	13	1/2



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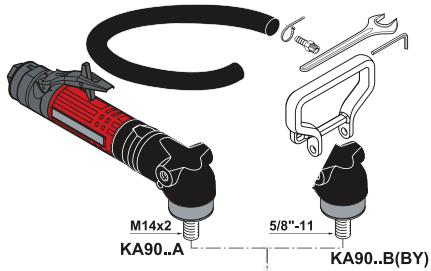
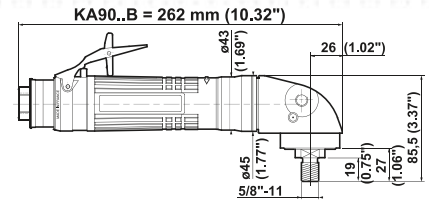
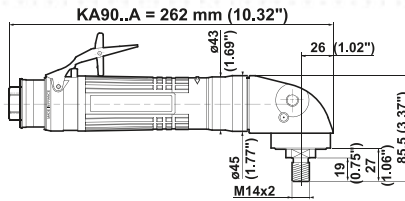
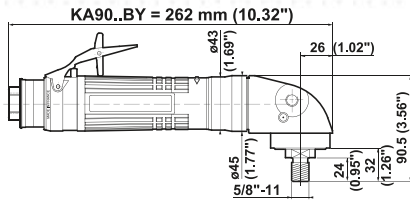
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Accessories



KA90..A / KA90..B / KA90..BY

ACCESSORIES INCLUDED

	PART NO.
• Exhaust hose L = 1.5m (60")	615 875 113 0
• Clamp	615 873 415 0
• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0
• Support handle	615 576 069 0
• Flat wrench, 17mm (1-1/16")	615 801 032 0
• Hex key 8mm (5/16")	615 802 061 0

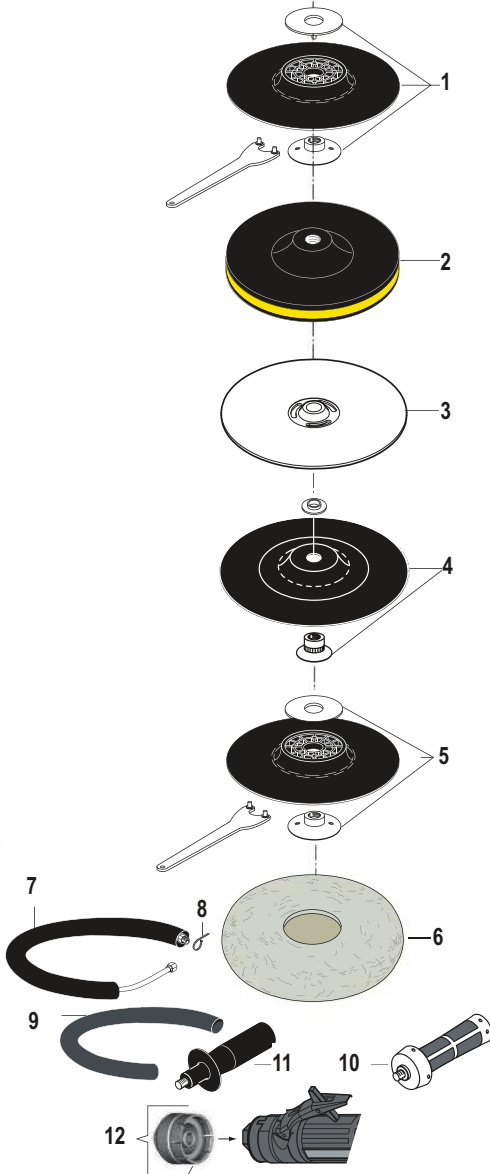
OPTIONAL ACCESSORIES

SANDING ITEM	KA90..A M14x2	KA90..B 5/8"-11	KA9030/20BY 5/8"-11
1 Soft backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8500 rpm)	615 990 133 0	615 990 133 0	
1 Rigid backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8500 rpm)	615 990 134 0	615 990 134 0	
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0	
2 Rigid velcro-backed backing pad ø 180mm (7") (max. 8700 rpm)		615 990 146 0	
2 Rigid velcro-backed backing pad ø 150mm (6") (max. 10000 rpm)		615 990 138 0	
3 Spiracool pad with nut ø 180mm (7") (max. 8500 rpm)			S091836
3 Spiracool pad with nut ø 230mm (9") (max. 6500 rpm)			S091839
4 Complete Kit ø 180mm (7") (max. 7000 rpm)			K129587
• Hex. Key 8mm (5/16")			615 802 061 0

POLISHING ITEM	KA90..A	KA90..B
5 Soft backing pad with nut M14 & 5/8" ø 180mm (7") (max. 8500 rpm)	615 990 133 0	615 990 133 0
• Pin wrench 35mm (1-3/8")	615 802 010 0	615 802 010 0
6 Sheepskin ø 180mm (7") (max. 2100 rpm)	615 845 999 0	615 845 999 0

OTHER OPTIONAL ACCESSORIES

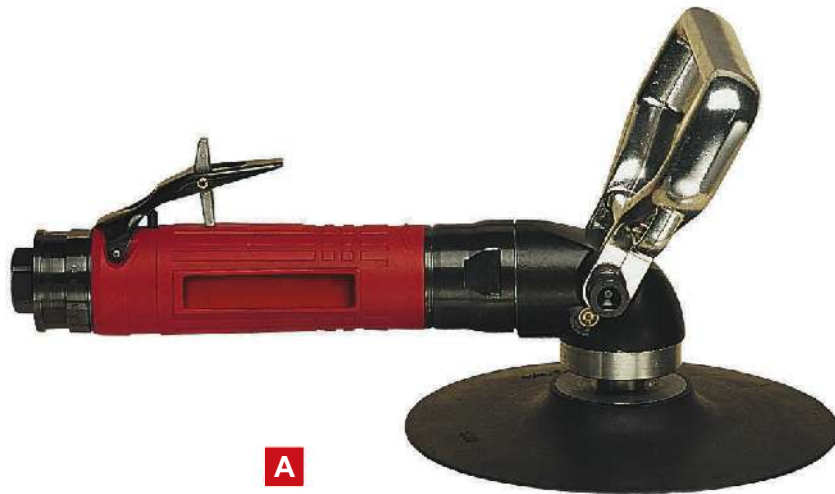
ITEM	PART NO.
7 Complete silencer kit	615 396 166 0
8 Clamp	615 873 115 0
9 Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
10 Vibration-damping side handle	615 576 066 0
11 Side handle	615 576 038 0
12 Clippable silencer	615 396 655 0



Sanders for abrasive discs polishing Ø 150mm (6") - Ø 180mm (7") - Ø 230mm (9")

900 Watts (1.21 hp) - 2000 and 3000 rpm

Supplied with M14 or 5/8" threaded spindle only



A

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET THREAD	HOSE INT. Ø	
					rpm	in.	W	hp	kg	lb.	AT FREE SPEED	AT MAX OUTPUT		in.	mm
A	KA9030A	615 170 098 0	3000	M14x2	900	1.21	1.6	3.5	13	27	17	36	3/8	10	3/8
A	KA9030B	615 170 099 0	3000	5/8-11	900	1.21	1.6	3.5	13	27	17	36	3/8	10	3/8
A	KA9020A	615 170 096 0	2000	M14x2	900	1.21	1.6	3.5	7	15	17	36	3/8	10	3/8
A	KA9020B	615 170 097 0	2000	5/8-11	900	1.21	1.6	3.5	7	15	17	36	3/8	10	3/8

For USA Market only (to ANSI B186.1)

A	KA9030BY	615 170 309 0	3000	5/8"-11 UNC	900	1.21	1.6	3.5	13	27	17	36	3/8	10	3/8
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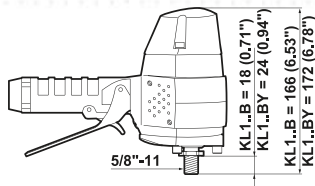
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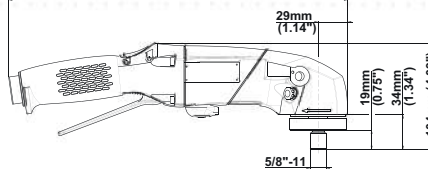
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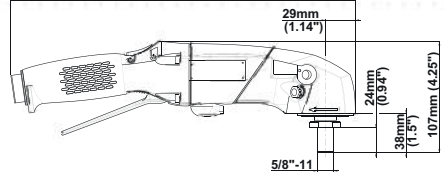
Accessories



KA26065BV / 085BV = 334mm (13.15")



KA26060BY / 077BY = 334mm (13.15")



KL165B / KA26085BV / KA26065BV / KA26077BY / KA26060BY

ACCESSORIES INCLUDED

	KL165B	KA26085BV KA26065BV	KA26077BY KA26060BY
• Rear flange	615 503 107 0		615 503 107 0
• Auto-balancer		615 990 195 0	
• Rotating handle support kit		615 397 741 5	615 397 741 5
• Rotating exhaust kit		615 397 743 5	615 397 743 5
• 1/2" air hose nipple for 13mm (1/2") ID hose	615 704 016 0		
• 1/2" air hose nipple for 15mm (5/8") ID hose		615 704 014 0	615 704 014 0
• Vibration-damping side handle	615 576 066 0		615 576 066 0

OPTIONAL ACCESSORIES

SANDING WITH STANDARD ABRASIVE DISC Ø 180MM (7")	KL165B	KA26085BV KA26077BY
• Rear flange for KA26085BV		615 503 107 0
1 Soft Backing pad with nut 5/8", ø 180mm (7") - (max. 8500 rpm)	615 990 133 0*	615 990 133 0*
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0
• Hex key 8mm (5/16")	615 802 061 0	

*Spare Part: Nut 615 608 047 0

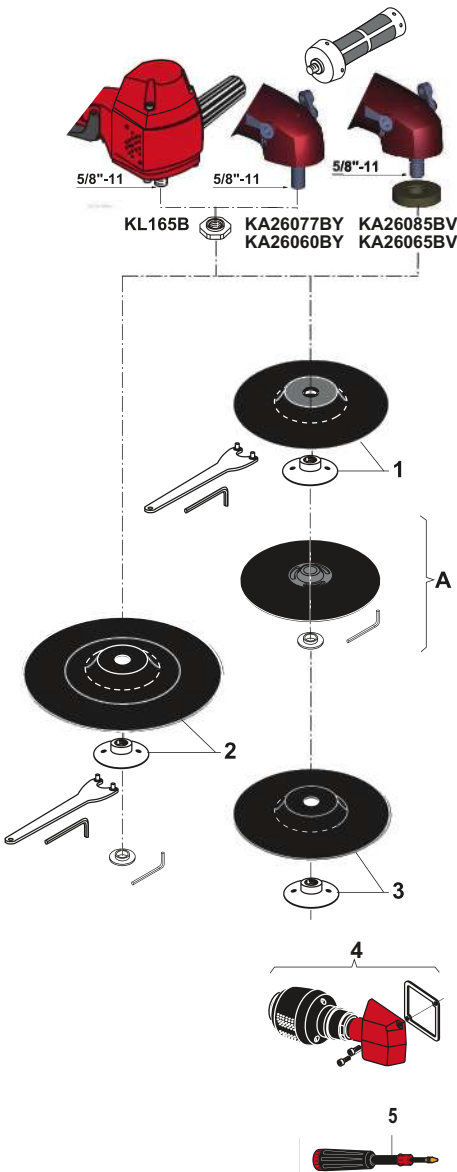
SANDING WITH SPIRACOO PAD Ø 180MM (7")	KA26077BY
A Spiracool pad with nut 5/8", ø 180mm (7") - (Max. 8500 rpm)	S091836
• Pin wrench 35mm (1-3/8")	615 802 010 0

SANDING WITH STANDARD ABRASIVE DISC Ø 230MM (9")	KA26065BV KA26060BY
• Rear flange for KA26085BV	615 503 107 0
2 Soft Backing pad with nut 5/8", ø 230mm (9") - (max. 6500 rpm)	615 990 141 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0
• Hex key 8mm (5/16")	615 802 061 0

* Spare Part: Nut 608.29

OTHER OPTIONAL ACCESSORIES

ITEM	KL165B	KA26..
3 Rigid backing pad with nut 5/8", ø 180mm (7") - (max. 8500 rpm)	615 990 134 0	
4 Silencer kit	615 399 462 0	
5 Grease gun includes 24g (0.8 oz)		615 990 149 0
• Grease for bevel gear (1kg - 2.2 lb)		615 990 148 0



Sanders for abrasive discs Ø 180mm (7") - Ø 230mm (9")

1200 and 2100 Watts (1.61 and 2.82 hp) - 6000 to 8500 rpm

Supplied with 5/8" threaded spindle only



A



B



C

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	ABRASIVE MAX CAPACITY		THREADED SPINDLE	POWER		WEIGHT		AIR CONSUMPTION				AIR INLET		HOSE INT.	
				Ø mm	Ø in.		W	hp	kg	lb.	AT FREE SPEED	AT MAX SPEED	Ø	Ø	rpm	mm	in.	

VERTICAL SANDER

A	KL165B	615 170 011 0	6500	180	7	5/8-11	1200	1.61	2.3	5.1	6	13	25	53	1/2	13	1/2
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ANGLE SANDERS

B	KA26085BV	615 170 479 0	8500	180	7	5/8-11	2100	2.82	2.3	5.1	17	36	36	77	1/2	15	5/8
B	KA26065BV	615 170 480 0	6500	180-230	7-9	5/8-11	2100	2.82	2.3	5.1	21	44	38	80	1/2	15	5/8

ANGLE SANDERS

For USA Market only (to ANSI B186.1)

C	KA26077BY	615 170 481 0	7700	180	7	5/8-11	2100	2.82	2.3	5.1	16	33	32	69	1/2	15	5/8
C	KA26060BY	615 170 482 0	6000	180-230	7-9	5/8-11	2100	2.82	2.3	5.1	18	38	37	77	1/2	15	5/8



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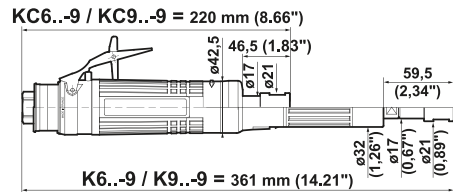
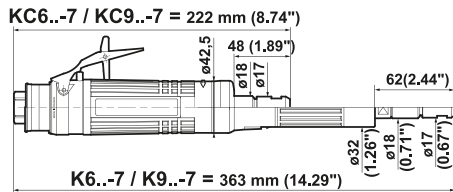
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Accessories



K6... / K9... / KC6... / KC9...

ACCESSORIES INCLUDED

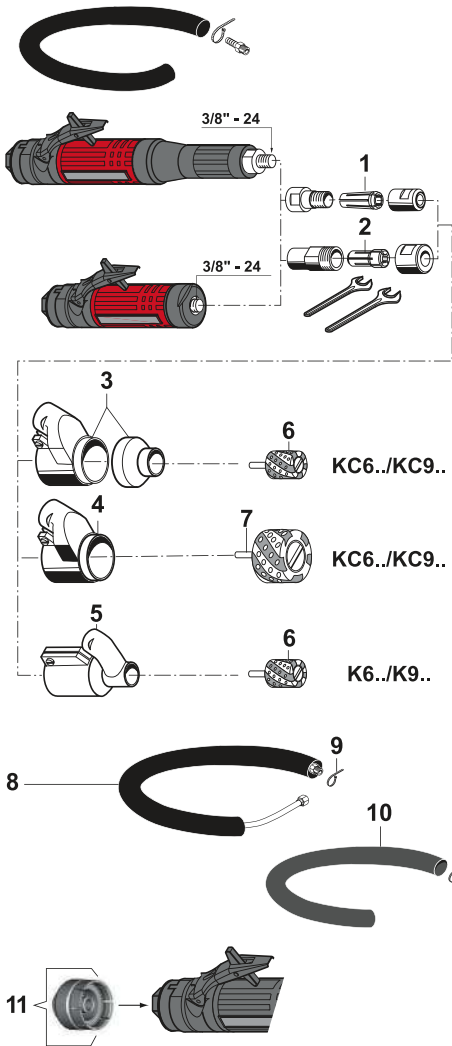
ITEM		COLLET CNOMO	COLLET SERIES 200
1	CNOMO collet \varnothing 6mm	615 526 049 0	
2	Series 200 resilient collet, \varnothing 5.55 to 6.35mm (1/4")		615 526 063 0
	• Exhaust hose L = 1.5m (60")	615 875 113 0	615 875 113 0
	• Clamp	615 873 415 0	615 873 415 0
	• 3/8" air hose nipple for 10mm (3/8") ID hose	615 704 017 0	615 704 017 0
	• Flat wrench 14mm	615 801 005 0	615 801 005 0
	• Flat wrench 19mm (3/4")		615 801 076 0

OPTIONAL ACCESSORIES

ITEM		K6.../K9...	KC6.../KC9...
3	Suction cap		615 396 013 0
4	Suction cap		615 396 023 0
5	Suction cap	615 396 014 0	
6	Diamond cylinder \varnothing 27mm (1.06"), shank \varnothing 6mm (1/4") (20000 rpm max)	615 860 003 0	615 860 003 0
7	Diamond cylinder \varnothing 52mm (2.05"), shank \varnothing 6mm (1/4") (15000 rpm max)		615 860 004 0

OTHER OPTIONAL ACCESSORIES

ITEM		PART NO.
8	Complete silencer kit	615 396 166 0
9	Clamp	615 873 115 0
10	Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
11	Clippable silencer	615 396 655 0



Dust extraction systems for straight grinders

600 and 900 Watts (0.8 and 1.21 hp) - 12000 to 28000 rpm



A



B



B



615 396 014 0
Vacuum hose,
ID 25mm
(1")



615 396 013 0
Vacuum hose,
ID 32mm
(1-1/4")



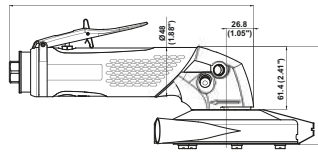
615 396 023 0
Vacuum hose,
ID 32mm
(1-1/4")

Caution: comply with the speeds recommended by component and abrasive manufacturers.

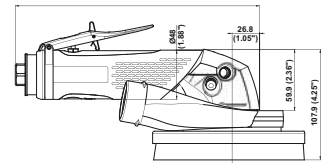
PIC REF	MODEL	PART NUMBER			SUCTION CAP ASSEMBLY	FREE SPEED	POWER		WEIGHT		AIR INLET THREAD
		CNOMO COLLET (-7)	SERIES 200 COLLET (-9)				W	hp	kg	lb.	
						rpm					in.
A	K628-	615 170 107 0	615 170 150 0	+	615 396 014 0	28000	600	0.80	1.3	2.9	3/8
A	K624-	615 170 106 0	615 170 151 0	+	615 396 014 0	24000	600	0.80	1.3	2.9	3/8
A	K922-	615 170 119 0	615 170 152 0	+	615 396 014 0	22000	900	1.21	1.4	3.1	3/8
A	K619-	615 170 105 0	615 170 153 0	+	615 396 014 0	19000	600	0.80	1.3	2.9	3/8
A	K918-	615 170 117 0	615 170 154 0	+	615 396 014 0	18000	900	1.21	1.4	3.1	3/8
A	K615-	615 170 104 0	615 170 155 0	+	615 396 014 0	15000	600	0.80	1.3	2.9	3/8
A	K915-	615 170 114 0	615 170 156 0	+	615 396 014 0	15000	900	1.21	1.4	3.1	3/8
A	K912-	615 170 110 0	615 170 157 0	+	615 396 014 0	12000	900	1.21	1.4	3.1	3/8
B	KC628-	615 170 126 0	615 170 158 0	+	615 396 013 0 or 615 396 023 0	28000	600	0.80	0.9	2.0	3/8
B	KC624-	615 170 125 0	615 170 159 0	+	615 396 013 0 or 615 396 023 0	24000	600	0.80	0.9	2.0	3/8
B	KC922-	615 170 130 0	615 170 160 0	+	615 396 013 0 or 615 396 023 0	22000	900	1.21	1.0	2.2	3/8
B	KC619-	615 170 124 0	615 170 161 0	+	615 396 013 0 or 615 396 023 0	19000	600	0.80	0.9	2.0	3/8
B	KC918-	615 170 129 0	615 170 162 0	+	615 396 013 0 or 615 396 023 0	18000	900	1.21	1.0	2.2	3/8
B	KC615-	615 170 123 0	615 170 163 0	+	615 396 013 0 or 615 396 023 0	15000	600	0.80	0.9	2.0	3/8
B	KC915-	615 170 128 0	615 170 164 0	+	615 396 013 0 or 615 396 023 0	15000	900	1.21	1.0	2.2	3/8
B	KC912-	615 170 127 0	615 170 165 0	+	615 396 013 0 or 615 396 023 0	12000	900	1.21	1.0	2.2	3/8

Accessories

KA16... = 238mm (9.37")



KA16... = 238mm (9.37")



KA16120. / KA16085. / KA16075. / KA16060.

ACCESSORIES INCLUDED

	PART NO.
• Exhaust hose L = 1.5m (60")	615 875 113 0
• Clamp	615 263 024 0
• 3/8" air hose nipple for 13mm (1/2") ID hose	615 704 027 0
• Side handle	615 576 038 0
• Flat wrench, 17mm (1-1/16")	615 801 032 0

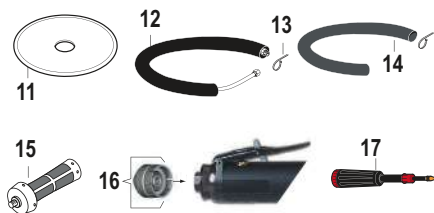
OPTIONAL ACCESSORIES

FOR COMPOSITE CUTTING		KA16120. / KA16085. KA16075. / KA16060
ITEM		Ø 127mm (5")
A	Dust extraction Kit for Diamond disc ø 127mm (5")	615 397 830 0
1	Manifold cutting with screws	615 504 217 0
2	Goble cover plate complete	615 504 218 0
3	Spacer 6mm - Hole 14mm	615 643 092 0
3	Spacer 6mm - Hole 16mm	615 643 091 0
4	Spacer for M14 spindle	615 643 089 0
4	Spacer for 5/8" spindle	615 643 090 0
5	Flange nut M14	615 606 046 0
5	Flange nut 5/8"	615 606 045 0
	• Pin key	615 802 067 0

DUST EXTRACTION FOR COMPOSITE, NON METAL SANDING		KA16120. / KA16085. KA16075. / KA16060	KA16085. KA16075. / KA16060
ITEM		Ø 127mm (5")	Ø 180mm (7")
B	Dust extraction Kit for disc ø 127mm (5")	615 397 828 0	
C	Dust extraction Kit for disc ø 180mm (7")		615 397 829 0
6	Suction cap	615 504 194 0	615 504 194 0
7	Washer	615 643 083 0	615 643 083 0
8	Skirt with brush	615 570 234 0	615 570 231 0
9	Ventilated backing pad ø127mm (5") with nut M14 & 5/8" (max. 12000 rpm)	615 990 199 0	
10	Rigid backing pad ø180mm (7") with nut M14 & 5/8" (max. 8500 rpm)		615 990 198 0
	• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0

OTHER OPTIONAL ACCESSORIES

ITEM		PART NO.
11	Diamond disc ø 127mm (5")	615 804 915 0
12	Complete silencer kit	615 396 166 0
13	Clamp	615 263 024 0
14	Reinforced cloth-lined exhaust hose L = 0.75m (30")	615 875 116 0
15	Vibration-damping side handle	615 576 066 0
16	Clippable silencer	615 396 957 0
17	Grease gun includes 24g (0.8oz)	615 990 149 0
	• Grease for bevel gear (1 kg - 2.2 lb)	615 990 148 0



Dust extraction systems for angle models Ø 127mm (5") - Ø 180mm (7")

1350 to 1700 Watts (1.81 to 2.28 hp) - 6000 to 12000 rpm



A

Dust extraction casing for diamond disc Ø 127mm (5")
Vacuum hose ID 25mm (1")

B

Vacuum hose, ID 38mm (1-1/2")



B/C

Vacuum hose, ID 38mm (1-1/2")



Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	DUST EXTRACTION KIT		FREE SPEED rpm	THREADED SPINDLE	POWER		WEIGHT		AIR INLET THREAD in.
			Ø 127mm (5")	Ø 180mm (7")			W	hp	kg	lb.	

CUTTING Ø 127mm (5") - M14 Output

A	KA16120A	615 170 435 0	+	615 397 830 0	12000	M14x2	1700	2.28	1.39	3.0	3/8
A	KA16085A	615 170 468 0	+	615 397 830 0	8500	M14x2	1700	2.28	1.39	3.0	3/8
A	KA16075A	615 170 448 0	+	615 397 830 0	7500	M14x2	1500	2.01	1.39	3.0	3/8
A	KA16060A	615 170 449 0	+	615 397 830 0	6000	M14x2	1350	1.81	1.41	3.1	3/8

CUTTING Ø 127mm (5") - 5/8" Output

A	KA16120B	615 170 445 0	+	615 397 830 0	12000	5/8-11	1700	2.28	1.98	4.4	3/8
A	KA16085B	615 170 469 0	+	615 397 830 0	8500	5/8-11	1700	2.28	1.39	3.0	3/8
A	KA16075B	615 170 452 0	+	615 397 830 0	7500	5/8-11	1500	2.01	1.39	3.0	3/8
A	KA16060B	615 170 453 0	+	615 397 830 0	6000	5/8-11	1350	1.81	1.41	3.1	3/8

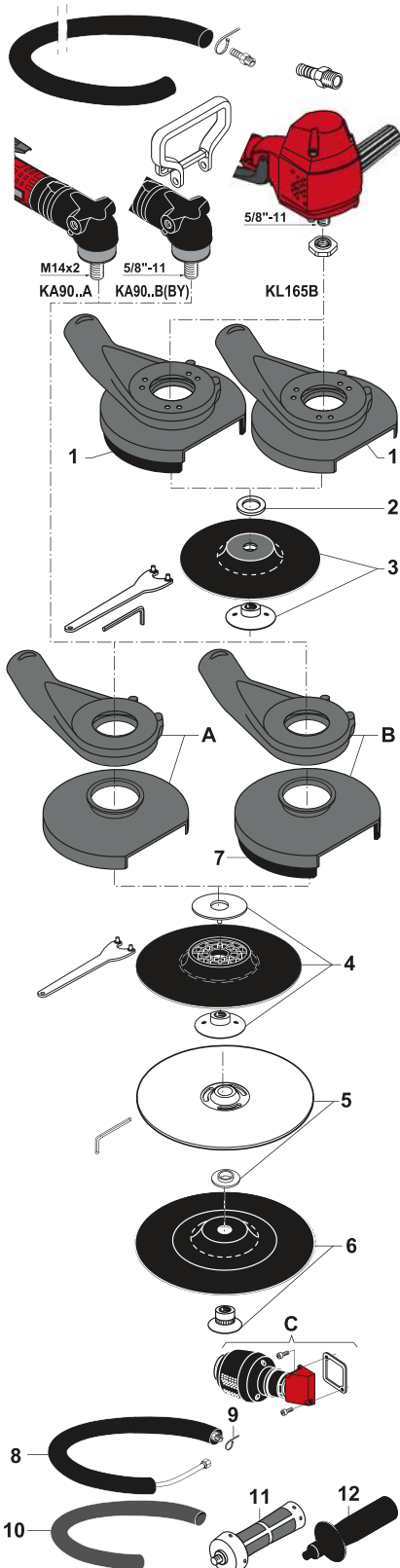
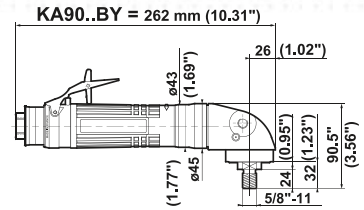
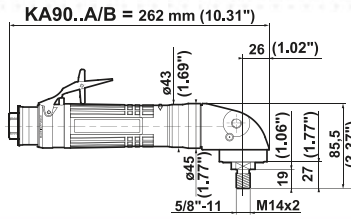
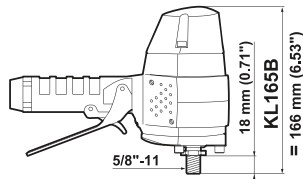
CUTTING Ø 127mm (5") - 5/8" Output for USA Market only (to ANSI B186.1)

A	KA16120BY	615 170 447 0	+	615 397 830 0	12000	5/8-11	1700	2.28	1.98	4.4	3/8
A	KA16075BY	615 170 450 0	+	615 397 830 0	7500	5/8-11	1500	2.01	1.39	3.0	3/8
A	KA16060BY	615 170 451 0	+	615 397 830 0	6000	5/8-11	1350	1.81	1.41	3.1	3/8

SANDING Ø 127 mm (5") & Ø 180 mm (7") - M14 & 5/8" Output

B	KA16120A	615 170 435 0	+	615 397 828 0	12000	M14x2	1700	2.28	1.39	3.0	3/8	
B	KA16120B	615 170 445 0	+	615 397 828 0	12000	5/8-11	1700	2.28	1.39	3.0	3/8	
B/C	KA16085A	615 170 468 0	+	615 397 828 0	615 397 829 0	8500	M14x2	1700	2.28	1.39	3.0	3/8
B/C	KA16085B	615 170 469 0	+	615 397 828 0	615 397 829 0	8500	5/8-11	1700	2.28	1.39	3.0	3/8
B/C	KA16075A	615 170 448 0	+	615 397 828 0	615 397 829 0	7500	M14x2	1500	2.01	1.39	3.0	3/8
B/C	KA16075B	615 170 452 0	+	615 397 828 0	615 397 829 0	7500	5/8-11	1500	2.01	1.39	3.0	3/8
B/C	KA16060A	615 170 449 0	+	615 397 828 0	615 397 829 0	6000	M14x2	1350	1.81	1.41	3.1	3/8
B/C	KA16060B	615 170 453 0	+	615 397 828 0	615 397 829 0	6000	5/8-11	1350	1.81	1.41	3.1	3/8

Accessories



KL165B / KA90.. A / KA90..B / KA90..BY

ACCESSORIES INCLUDED

	KL165B	KA90..A KA90..B / BY
• Rear flange	615 503 107 0	
• 1/2" air hose nipple for 13mm (1/2") ID hose	615 704 016 0	
• Exhaust hose L= 1.5m (60")		615 875 113 0
• Clamp		615 873 415 0
• 3/8" air hose nipple for 10mm (3/8") ID hose		615 704 017 0
• Support handle		615 576 069 0

OPTIONAL ACCESSORIES

FOR SANDING MATERIALS	KL165B non metallic Fibre disc Ø 180mm (7")	KL165B metallic Fibre disc Ø 180mm (7")
ITEM		
• Complete kit (including item 1-2-3)	615 399 364 0	615 399 365 0
1 Suction cap	615 399 359 0	615 399 360 0
2 Washer Z16U	615 642 050 0	615 642 050 0
3 Rigid backing pad ø 180mm (7") with nut 5/8" (Max. 8500 rpm)	615 990 134 0	615 990 134 0
• Pin wrench, 35mm (1-3/8")	615 802 010 0	615 802 010 0
• Hex key 8mm (5/16")	615 802 061 0	615 802 061 0

FOR SANDING METALLIC MATERIALS	KA90..A / B Ø 180mm (7")	KA90..BY Ø 180mm (7")
ITEM		
A Suction cap	615 396 125 0	615 396 125 0
4 Rigid backing pad ø 180mm (7") with nut M14 & 5/8" (Max. 8500 rpm)	615 990 134 0	
• Pin wrench, 35mm (1-3/8")	615 802 010 0	
5 Spiracool pad (Max. 8500 rpm)		S091836
6 Complete kit (Max. 7000 rpm)		K129587
• Hex key 8mm (5/16")		615 802 061 0

FOR SANDING NON METALLIC MATERIALS	KA90..A / B Ø 180mm (7")	KA90..BY Ø 180mm (7")
ITEM		
B Suction cap (including item 6-7)	615 396 126 0	615 396 126 0
4 Rigid backing pad ø 180mm (7") with nut M14 & 5/8" (Max. 8500 rpm)	615 990 134 0	
7 Spare brush	615 570 233 0	
• Pin wrench, 35mm (1-3/8")	615 802 010 0	
5 Spiracool pad (Max. 8500 rpm)		S091836
6 Complete kit (Max. 7000 rpm)		K129587
• Hex key 8mm (5/16")		615 802 061 0

OTHER OPTIONAL ACCESSORIES

ITEM	KL165B	KA90..A KA90..B / BY
C Silencer kit	615 399 462 0	
8 Complete silencer kit		615 396 166 0
9 Clamp		615 873 115 0
10 Reinforced cloth-lined exhaust hose L = 0.75m (30")		615 875 116 0
11 Vibration-damping side handle		615 576 066 0
12 Side handle		615 576 038 0
13 Clippable silencer		615 396 655 0



Dust extraction systems for vertical and angle sanders

Ø 180mm (7")

900 and 1200 Watts (1.21 and 1.61 hp) - 2000 to 6500 rpm

Supplied with M14 & 5/8" threaded spindle only



A

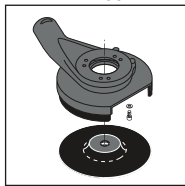


B

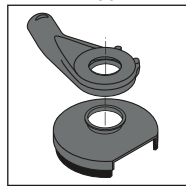
For standard abrasive disc for non metallic materials

KL165

KA90..



615 399 364 0

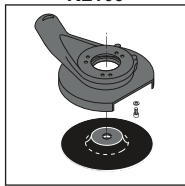


615 396 126 0

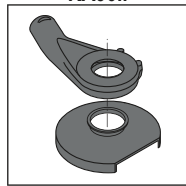
For standard abrasive disc for metallic materials

KL165

KA90..



615 399 365 0



615 396 125 0

Vacuum hose, ID 38mm (1-1/2")



C

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER		DUST EXTRACTION KIT	FREE SPEED	THREADED SPINDLE	POWER		WEIGHT		AIR INLET THREAD
				Ø 180 mm (7")			rpm	in	W	hp	

VERTICAL SANDER

A	KL165B	615 170 011 0	+	615 399 364 0 or 615 399 365 0	6500	5/8-11	1 200	1.61	2.3	5.1	1/2
---	--------	---------------	---	--------------------------------	------	--------	-------	------	-----	-----	-----

ANGLE SANDERS

B	KA9030A	615 170 098 0	+	615 396 126 0 or 615 396 125 0	3000	M14x2	900	1.21	1.6	3.5	3/8
B	KA9030B	615 170 099 0	+	615 396 126 0 or 615 396 125 0	3000	5/8-11	900	1.21	1.6	3.5	3/8
B	KA9020A	615 170 096 0	+	615 396 126 0 or 615 396 125 0	2000	M14x2	900	1.21	1.6	3.5	3/8
B	KA9020B	615 170 097 0	+	615 396 126 0 or 615 396 125 0	2000	5/8-11	900	1.21	1.6	3.5	3/8

ANGLE SANDER for USA Market Only (to Ansi B186.1)

C	KA9030BY	615 170 309 0	+	615 396 126 0 or 615 396 125 0	3000	5/8-11	900	1.21	1.6	3.5	3/8
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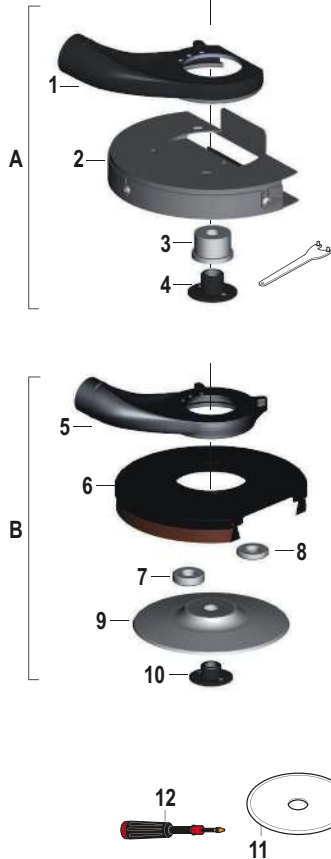
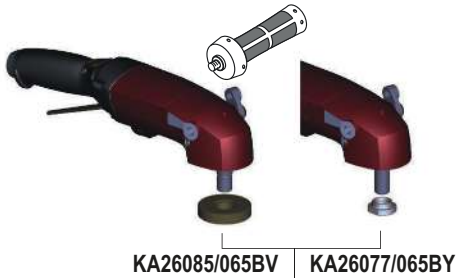
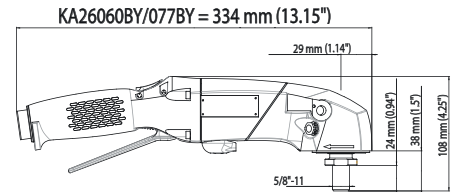
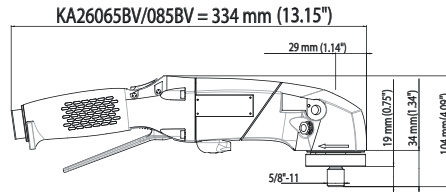
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Accessories



KA26085BV / KA26065BV / KA26077BY / KA26060BY

ACCESSORIES INCLUDED

	KA26085BV KA26065BV	KA26077BY KA26060BY
• Auto-balancer	615 990 195 0	
• Rear flange		615 503 107 0
• Rotating handle support kit	615 397 741 5	615 397 741 5
• Rotating exhaust kit	615 397 743 5	615 397 743 5
• Vibration-damping side handle	615 576 066 0	615 576 066 0

OPTIONAL ACCESSORIES

FOR COMPOSITE CUTTING		KA26085BV/065BV KA26077BY/060BY Ø 180mm (7")
ITEM		
A	Dust extraction Kit for Diamond disc ø 180mm (7")	615 397 844 0
1	Manifold cutting with screws	615 504 220 0
2	Goble cover plate complete	615 504 221 0
3	Spacer - hole 5/8"	615 643 090 0
4	Flange nut 5/8"	615 606 048 0
	• Pin wrench, 35mm (1-3/8")	615 802 010 0
DUST EXTRACTION FOR COMPOSITE, NON METAL SANDING		KA26085BV/065BV KA26077BY/060BY Ø 180mm (7")
ITEM		
B	Dust extraction Kit for disc ø 180mm (7")	615 397 843 0
5	Manifold with screws	615 504 219 0
6	Skirt with brush	615 570 231 0
7	Spacer 9mm	615 643 093 0
8	Spacer 6mm - Hole 16mm (5/8")	615 643 091 0
9	Rigid backing pad ø180mm (7") (max. 8500rpm)	615 990 200 0
10	Flange nut 5/8"	615 606 047 0
	• Pin wrench, 35mm (1-3/8")	615 802 067 0
OTHER OPTIONAL ACCESSORIES		
ITEM		PART NO.
11	Diamond disc ø 180mm (7")	615 811 145 0
12	Grease gun includes 24g (0.8oz)	615 990 149 0
	• Grease for bevel gear (1 kg - 2.2 lb)	615 990 148 0



Dust extraction systems for angle models Ø 180mm (7")

2100 Watts (2.82 hp) - 6000 to 8500 rpm



A

Dust extraction casing for diamond disk Ø 180mm (7")
Vacuum hose, ID 38mm (1-1/2")



B

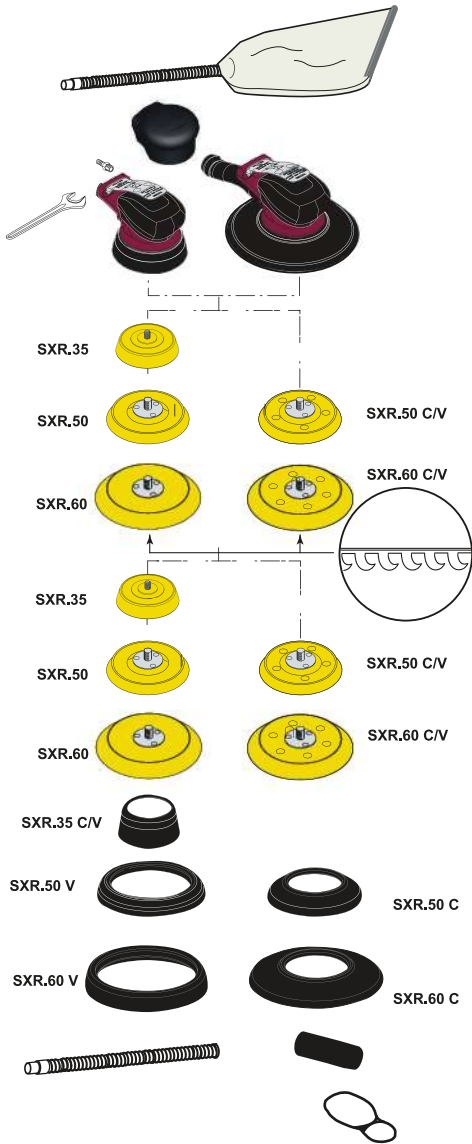
Vacuum hose, ID 38mm (1-1/2")

Caution: comply with the speeds recommended by component and abrasive manufacturers.

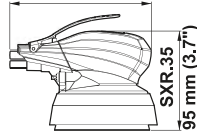
PIC REF	MODEL	PART NUMBER		DUST EXTRACTION KIT	FREE SPEED	THREADED SPINDLE	POWER		WEIGHT		AIR INLET THREAD
							W	hp	kg	lb	
CUTTING Ø 180mm (7")											
A	KA26085BV	615 170 479 0	+	615 397 844 0	8500	5/8-11	2100	2.82	2.3	5.1	1/2
A	KA26065BV	615 170 480 0	+	615 397 844 0	6500	5/8-11	2100	2.82	2.3	5.1	1/2
CUTTING Ø 180mm (7") for USA Market only (to ANSI B186.1)											
A	KA26077BY	615 170 482 0	+	615 397 844 0	7700	5/8-11	2100	2.82	2.3	5.1	1/2
A	KA26060BY	615 170 481 0	+	615 397 844 0	6000	5/8-11	2100	2.82	2.3	5.1	1/2
SANDING Ø 180mm (7")											
B	KA26085BV	615 170 479 0	+	615 397 843 0	8500	5/8-11	2100	2.82	2.3	5.1	1/2
B	KA26065BV	615 170 480 0	+	615 397 843 0	6500	5/8-11	2100	2.82	2.3	5.1	1/2
SANDING Ø 180mm (7") for USA Market only (to ANSI B186.1)											
B	KA26077BY	615 170 482 0	+	615 397 843 0	7700	5/8-11	2100	2.82	2.3	5.1	1/2
B	KA26060BY	615 170 481 0	+	615 397 843 0	6000	5/8-11	2100	2.82	2.3	5.1	1/2

5/8"-11 UNC

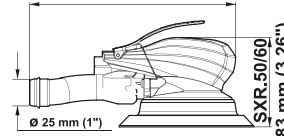
Accessories



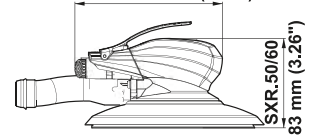
SXR. = 127 mm (5")



SXR.V/C = 186 mm (7.32")



SXR.C = 133 mm (5.24")



SXR.35. / SXR.50. / SXR.60.

ACCESSORIES INCLUDED

	PART NO.
• 1/4" air hose nipple for 6mm (1/4") ID hose	615 705 009 0
• Small grip (medium-size grip fitted on sander)	615 303 108 0
• Flat wrench 26mm across flats	615 801 078 0
• Complete dust extraction kit for SXRA..V and SXRB..V version	615 396 264 0

PADS: Thread 5/16"-24	FOR HOOK & LOOP ABRASIVE	FOR HOOK & LOOP ABRASIVE (V) OR (C) WITH HOLES
• Pad ø 89mm (3.5") - 80gr - SXR(.)35(.)	615 990 158 0	-
• Pad ø 127mm (5") - 100gr - SXR(.)50	615 990 156 0	615 990 157 0
• Pad ø 150mm (6") - 130gr - SXR(.)60	615 990 154 0	615 990 155 0

OPTIONAL ACCESSORIES

PADS: Thread 5/16"-24	FOR SELF- ADHESIVE ABRASIVE	FOR SELF- ADHESIVE ABRASIVE (V) OR (C) WITH HOLES
• Pad ø 89mm (3.5") - 80gr - SXR(.)35(.)	615 990 163 0	-
• Pad ø 127mm (5") - 100gr - SXR(.)50	615 990 161 0	615 990 162 0
• Pad ø 150mm (6") - 130gr - SXR(.)60	615 990 159 0	615 990 160 0

VACUUM SKIRTS

• Vacuum skirt for SXR(.)35(.)	615 350 110 0
• Vacuum skirt for SXR(.)50C	615 350 107 0
• Vacuum skirt for SXR(.)60C	615 350 106 0
• Vacuum skirt for SXR(.)50V	615 350 103 0
• Vacuum skirt for SXR(.)60V	615 350 102 0

ADAPTOR

• Vacuum hose adaptor ø 25mm (1") / ø 32mm (1-1/4")	615 350 117 0
• Vacuum hose adaptor ø 25mm (1") / ø 28mm (1-1/8")	615 804 448 0

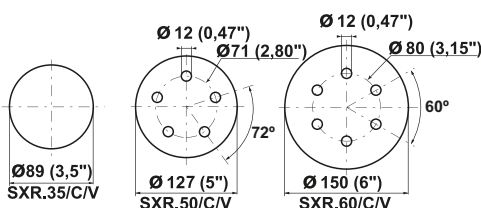
HOSE

• Dust extraction hose ø 25mm (1") L = 1.5m (60")	615 396 263 0
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BAIL HOOK

• Bail hook	615 571 060 0
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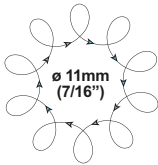
PAD DIMENSIONS



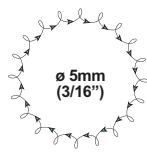
Random orbital sanders for abrasive discs

Ø 89mm (3.5") - Ø 127mm (5") - Ø 150mm (6")

210 Watts (0.3 hp) - 12000 rpm



For all your large applications



For all your versatile applications



For a best finish



SXR(.)35



SXR(.)35C



SXR(.)35V



SXR(.)50



SXR(.)50C



SXR(.)50V



SXR(.)60

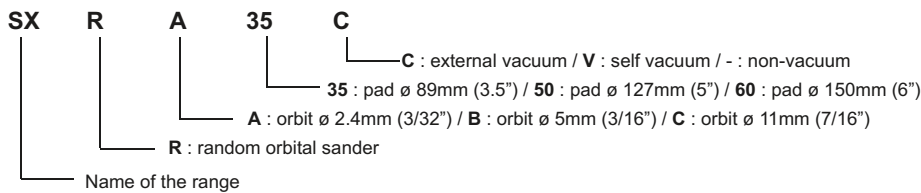


SXR(.)60C



SXR(.)60V

HOW TO SELECT YOUR SX SANDER — Eg: SXRA35C - SXR model / orbit Ø 2.4mm (3/32") / pad Ø 89mm (3.5") / with dust extraction



Supplied kit



*Sanders equipped with PSA pad

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PAD SIZE		MODEL	PART NUMBER	MODEL	PART NUMBER	MODEL	PART NUMBER	WEIGHT		AIR CONSUMPTION AT MAX. OUTPUT		AIR INLET THREAD	HOSE INT Ø	
mm	in.							kg	lb	l/s	cfm	in.	mm	in.
RANDOM ORBITAL SANDERS, ORBIT Ø 11mm (7/16")														
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM								
Ø 150	6	SRXC60	615 170 462 0	SRXC60C	615 170 463 0	SXRC60V	615 170 464 0	0.88	1.94	8.0	16.6	1/4	6	1/4
RANDOM ORBITAL SANDERS, ORBIT Ø 5mm (3/16")														
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM								
Ø 89	3.5	SXRB35	615 170 209 0	SXRB35C	615 170 215 0	SXRB35V	615 170 212 0	0.8	1.7	8.0	16.6	1/4	6	1/4
Ø 127	5	SXRB50	615 170 210 0	SXRB50C	615 170 216 0	SXRB50V	615 170 213 0	0.8	1.7	8.0	16.6	1/4	6	1/4
Ø 127	5	SXRB50*	615 170 300 0					0.8	1.7	8.0	16.6	1/4	6	1/4
Ø 150	6	SXRB60	615 170 211 0	SXRB60C	615 170 217 0	SXRB60V	615 170 214 0	0.8	1.7	8.0	16.6	1/4	6	1/4
Ø 150	6	SXRB60*	615 170 317 0					0.8	1.7	8.0	16.6	1/4	6	1/4
RANDOM ORBITAL SANDERS, ORBIT Ø 2.4mm (3/32")														
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM								
Ø 89	3.5	SXRA35	615 170 218 0	SXRA35C	615 170 224 0	SXRA35V	615 170 221 0	0.8	1.7	8.0	16.6	1/4	6	1/4
Ø 127	5	SXRA50	615 170 219 0	SXRA50C	615 170 225 0	SXRA50V	615 170 222 0	0.8	1.7	8.0	16.6	1/4	6	1/4
Ø 150	6	SXRA60	615 170 220 0					0.8	1.7	8.0	16.6	1/4	6	1/4



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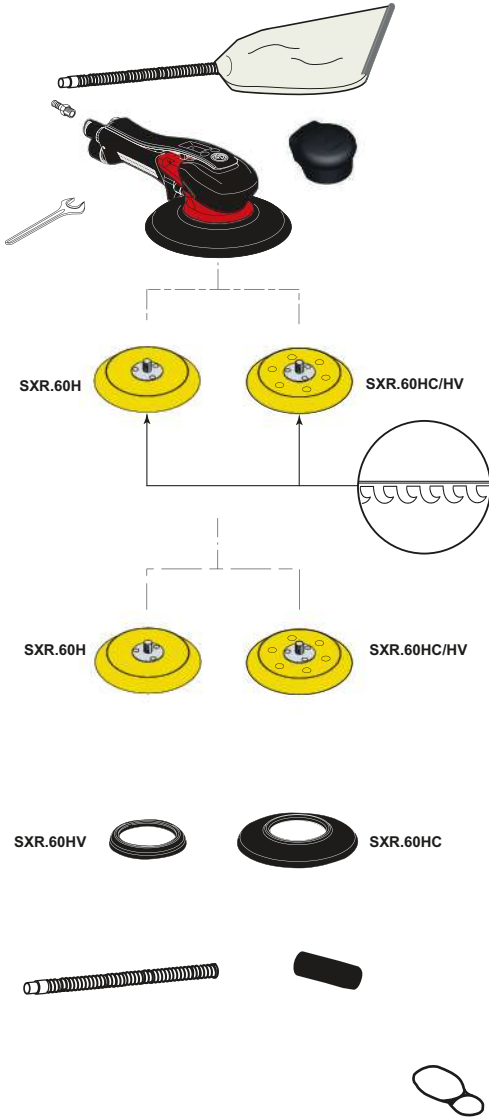
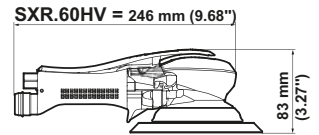
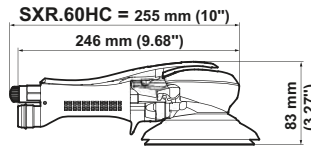
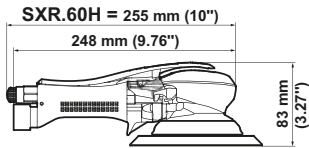
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Accessories



SXR.60H.

ACCESSORIES INCLUDED

	PART NO.
• 1/4" air hose nipple for 6mm (1/4") ID hose	615 705 009 0
• Small grip (medium-size grip fitted on sander)	615 303 108 0
• Flat wrench 26mm across flats	615 801 078 0
• Complete dust extraction kit for SXR.60HV version	615 396 264 0

PADS: Thread 5/16"-24	FOR HOOK & LOOP ABRASIVE	FOR HOOK & LOOP ABRASIVE (V) OR (C) WITH HOLES
• Pad ø 150mm (6") - 130gr - SXR(.)60	615 990 154 0	615 990 155 0

OPTIONAL ACCESSORIES

PADS: Thread 5/16"-24	FOR SELF-ADHESIVE ABRASIVE	FOR SELF-ADHESIVE ABRASIVE (V) OR (C) WITH HOLES
• Pad ø 150mm (6") - 130gr - SXR(.)60	615 990 159 0	615 990 160 0

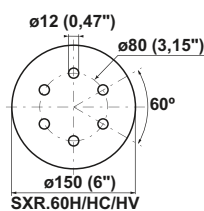
VACUUM SKIRTS	
• Vacuum skirt for SXR(.)60HC	615 350 106 0
• Vacuum skirt for SXR(.)60HV	615 350 102 0

ADAPTOR	
• Vacuum hose adaptor ø 25mm (1") / ø 32mm (1-1/4")	615 350 117 0
• Vacuum hose adaptor ø 25mm (1") / ø 28mm (1-1/8")	615 804 448 0

HOSE	
• Dust extraction hose ø 25mm (1") L = 1.5m (60")	615 396 263 0

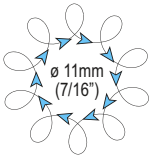
BAIL HOOK	
• Bail hook	615 571 060 0

PAD DIMENSIONS

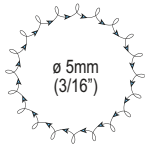


Random orbital sanders for abrasive discs Ø 150mm (6")

210 Watts (0.3 hp) - 12000 rpm



For all your large applications



For all your versatile applications



SXR.60H

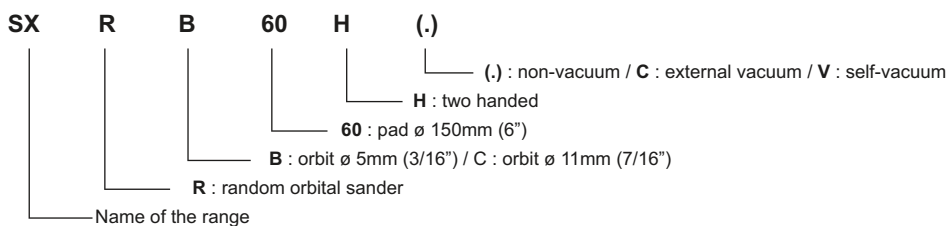


SXR.60HC



SXR.60HV

HOW TO SELECT YOUR SX SANDER — SXR60H - SXR model / orbit 5mm (3/16") / pad Ø 150mm (6") / Two handed / non vacuum



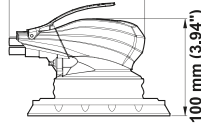
*Sanders equipped with PSA pad

Caution: comply with the speeds recommended by component and abrasive manufacturers.

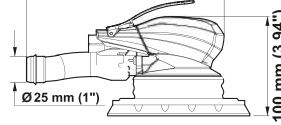
PAD SIZE		MODEL	PART NUMBER	MODEL	PART NUMBER	MODEL	PART NUMBER	WEIGHT		AIR CONSUMPTION AT MAX. OUTPUT		AIR INLET THREAD	HOSE INT Ø		
mm	in.							kg	lb	l/s	cfm	in.	mm	in.	
RANDOM ORBITAL SANDERS, ORBIT Ø 11mm (7/16")															
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM									
Ø 150	6	SXRC60H	615 170 465 0	SXRC60HC	615 170 466 0	SXRC60HV	615 170 467 0	0.88	1.94	8.0	16.6	1/4	6	1/4	
RANDOM ORBITAL SANDERS, ORBIT Ø 5mm (3/16")															
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM									
Ø 150	6	SXRB60H	615 170 355 0	SXRB60HC	615 170 362 0	SXRB60HV	615 170 359 0	0.9	2.0	8.0	16.6	1/4	6	1/4	
Ø 150	6	SXRB60H*	615 170 356 0												

Accessories

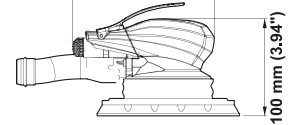
SXO.. = 127 mm (5")



SXO..V = 186 mm (7.32")



SXO..C = 133 mm (5.24")



SXOAR1. / SXOAT1.

ACCESSORIES INCLUDED

	PART NO.
• 1/4" air hose nipple for 6mm (1/4") ID hose	615 705 009 0
• Small grip (medium-size grip fitted on sander)	615 303 108 0
• Flat wrench 26mm across flats	615 801 078 0
• Complete dust extraction kit for SXOAR..V version	615 396 264 0

PAD FOR HOOK & LOOP ABRASIVE

	PART NO.
• Pad 80x130mm (3x5") for SXOAR..	615 350 121 0
• Pad 147x100mm (6x4") for SXOAT1..	615 350 122 0

OPTIONAL ACCESSORIES

	PART NO.
• Paper holder kit	615 396 413 0
• Pad 80x130mm (3x5") for SXOAR..	615 350 123 0

ADAPTOR

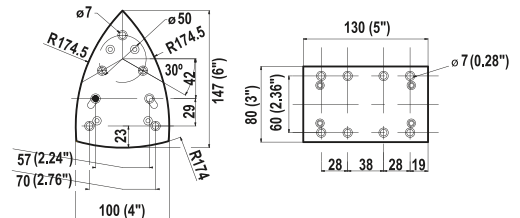
• Vacuum hose adaptor \varnothing 25mm (1") / \varnothing 32mm (1-1/4")	615 350 117 0
• Vacuum hose adaptor \varnothing 25mm (1") / \varnothing 28mm (1-1/8")	615 804 448 0

HOSE

• Dust extraction hose \varnothing 25mm (1") L = 1.5m (60")	615 396 263 0
---	---------------



PAD DIMENSIONS



Orbital sanders for abrasive sheets 80 x 130mm (3"x 5") - 147 x 100mm (6"x 4")

210 Watts (0.3 hp) - 10000 rpm



S XOAR1



S XOAR1C



S XOAR1V



S XOAT1



S XOAT1C

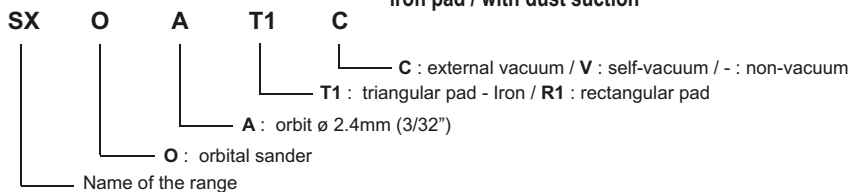


S XOAT1V



S XOAR1 equipped with paper holder kit P.N 615 396 413 0

HOW TO SELECT YOUR SXO SANDER — Eg: SXOAT1C - SXO model / orbit ø 2.4mm (3/32") iron pad / with dust suction



Supplied kit



Caution: comply with the speeds recommended by component and abrasive manufacturers.

PAD SIZE		MODEL	PART NUMBER	MODEL	PART NUMBER	MODEL	PART NUMBER	WEIGHT		AIR CONSUMPTION AT MAX. OUTPUT		AIR INLET THREAD	HOSE INT Ø	
mm	in.							kg	lb	l/s	cfm	in.	mm	in.

ORBITAL SANDERS, ORBIT ø 2.4mm (3/32")

		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM									
80x130	3x5	S XOAR1	615 170 233 0	S XOAR1C	615 170 237 0	S XOAR1V	615 170 235 0	1.0	2.2	8.0	16.6	1/4	6	1/4	
147x100	6x4	S XOAT1									16.6	1/4	6	1/4	



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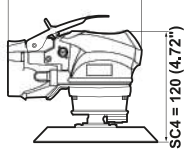
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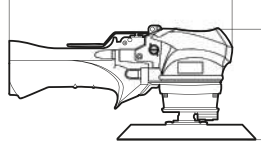


Accessories

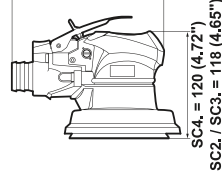
SC4. = 142 mm (5.59")



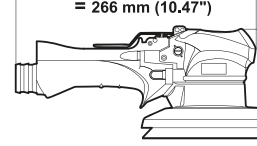
SC.P/SMRD60H = 242 mm (9.53")



SC.-8/-14 = 166 mm (6.54")

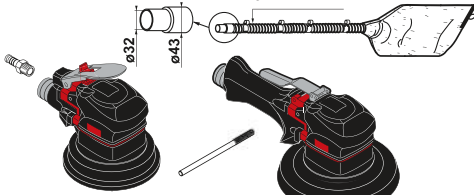


SC.P8/14/SMRD60HC/V
= 266 mm (10.47")



SC4P8(14) = 120 (4.72")
SC2P8(14) = 118 (4.65")
SC3P8(14) = 118 (4.65")
SMRD60HC(HV) = 122 (4.8")

Hose 2.5m long
32mm ID



SC4.. / SC..P / SMRD60..

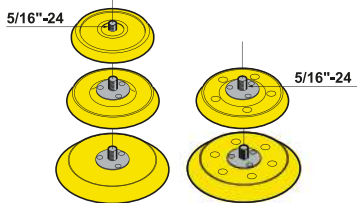
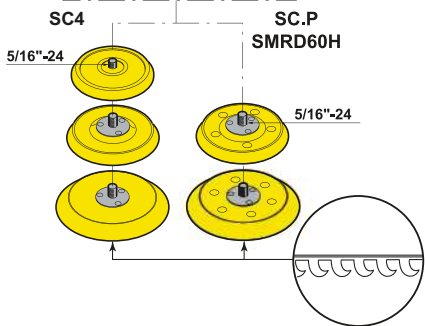
OPTIONAL ACCESSORIES

	PART NO.
• 1/4" air hose nipple for 8mm (5/32") ID hose	615 704 019 0
• Clamping lever	615 595 202 0
• Complete dust extraction kit for version (SC.-14/SRMD60HV)	615 399 471 0

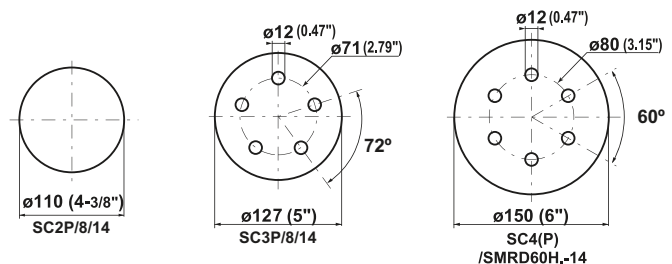
PADS: Thread 5/16" - 24	FOR HOOK & LOOP ABRASIVE	FOR HOOK & LOOP ABRASIVE (-8) OR (-14) (C) OR (V) WITH HOLES
• Pad ø 110mm (4-3/8") - SC2P/8/14	615 990 102 0	-
• Pad ø 127mm (5") - SC3P	615 990 156 0	615 990 157 0
• Pad ø 150mm (6") - SC4(P) - SRMD60H.	615 990 154 0	615 990 155 0

OPTIONAL ACCESSORIES

PADS: Thread 5/16" - 24	FOR SELF-ADHESIVE ABRASIVE	FOR SELF-ADHESIVE ABRASIVE (-8) OR (-14) (C) OR (V)
• Pad ø 110mm (4-3/8") - SC2P/8/14	615 990 101 0	-
• Pad ø 127mm (5") - SC3P	615 990 111 0	615 990 110 0
• Pad ø 150mm (6") - SC4(P) - SRMD60H.	615 990 119 0	615 990 118 0

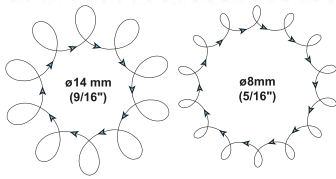


PAD DIMENSIONS



Random orbital sanders for abrasive discs Ø 110mm (4-3/8") - Ø 127mm (5") - Ø 150mm (6")

375 Watts (0.5 hp) - 10000 rpm



SC4



SC4P



SC4-8



SC4P8 - SMRD60HC



SMRD60H



SC4P14 - SMRD60HV

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PAD SIZE		MODEL	PART NUMBER	MODEL	PART NUMBER	MODEL	PART NUMBER	WEIGHT		AIR CONSUMPTION AT MAX. OUTPUT		AIR INLET THREAD		HOSE INT. Ø	
mm	in.							kg	lb	l/s	cfm	in.	mm	in.	
SANDERS WITH PALM GRIP, ORBIT Ø 8mm (5/16")															
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM									
ø 150	6	SC4	615 170 081 0	SC4-8	615 170 093 0	SC4-14	615 170 087 0	1.3	2.86	11	23	1/4	8	5/16	
SANDERS WITH HANDLE GRIP, ORBIT Ø 8mm (5/16")															
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM									
ø 110	4-3/8	SC2P	615 170 077 0	SC2P8	615 170 089 0	SC2P14	615 170 083 0	1.2	2.64	11	23	1/4	8	5/16	
ø 127	5	SC3P	615 170 079 0	SC3P8	615 170 091 0	SC3P14	615 170 085 0	1.3	2.86	11	23	1/4	8	5/16	
ø 150	6	SC4P	615 170 078 0	SC4P8	615 170 090 0	SC4P14	615 170 084 0	1.4	3.08	11	23	1/4	8	5/16	
LARGE ORBIT SANDERS WITH HANDLE GRIP, ORBIT Ø 14mm (9/16")															
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM									
ø 150	6	SMRD60H	615 170 280 0	SMRD60HC	615 170 281 0	SMRD60HV	615 170 282 0	1.3	2.86	11	23	1/4	8	5/16	



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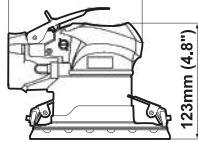
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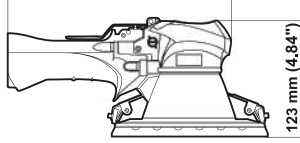


Accessories

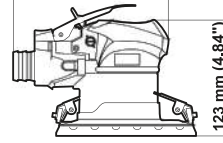
SV3 = 142mm (5.59")



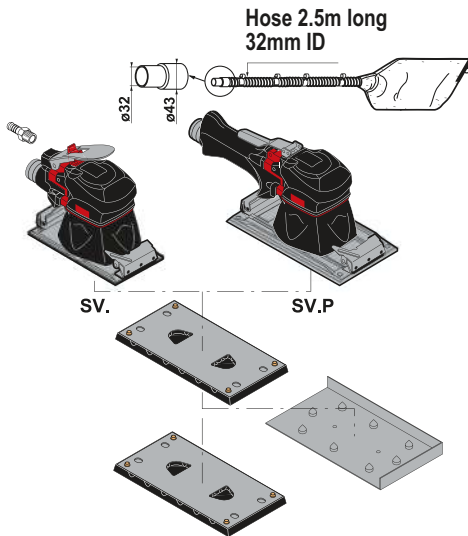
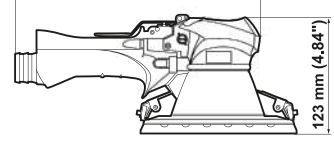
SV.P = 242 mm (9.53")



SV.-8/-14 = 166 mm (6.54")



SV.P8/14 = 266 mm (10.47")

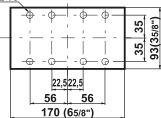


Hose 2.5m long
32mm ID

SV.

SV.P

8 side holes



SV.. / SV..P

ACCESSORIES INCLUDED

	PART NO.
• 1/4" air hose nipple for 8mm (5/16") ID hose	615 704 019 0
• Complete dust extraction kit for version (-14)	615 399 471 0

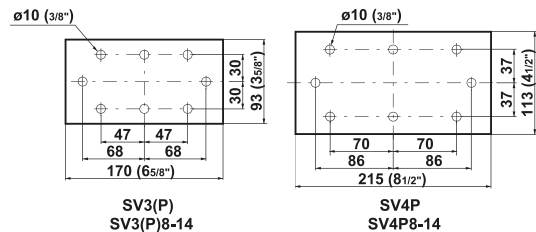
PADS AND DRILLING PLATE

	PAD	DRILLING PLATE FOR RELEASE (-8) OR (-14)
• Pad 170x93mm (6-5/8" x 3-5/8") - SV3(P)	615 350 018 0	615 990 094 0
• Pad 215x113mm (8-1/2" x 4-1/2") - SV4P	615 350 019 0	615 990 095 0

OPTIONAL ACCESSORIES

	PART NO.
• Pad 170x93mm (6-5/8" x 3-5/8") - 8 side holes SV3(P)	615 350 057 0

PAD DIMENSIONS



Orbital sanders for abrasive sheets 170 x 93mm (6-5/8" x 3-5/8") - 215 x 113mm (8-1/2" x 4-1/2")

375 Watts (0.5 hp) - 8000 rpm



SV3



SV3P



SV3-8



SV3P8

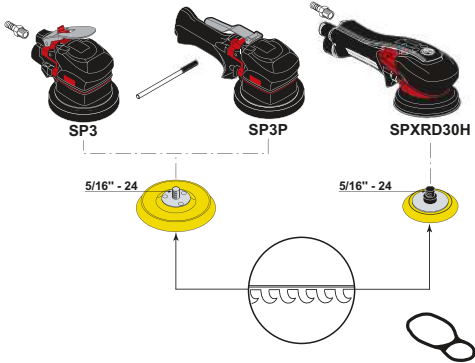
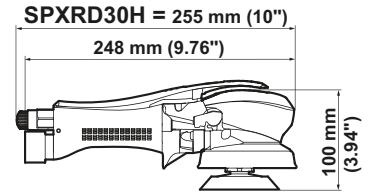
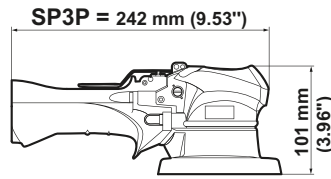
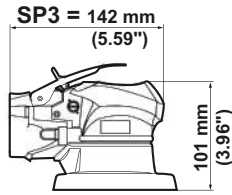


SV3P14

Caution: comply with the speeds recommended by component and abrasive manufacturers.

PAD SIZE		MODEL	PART NUMBER	MODEL	PAR NUMBER	MODEL	PART NUMBER	WEIGHT		AIR CONSUMPTION AT MAX. OUTPUT		AIR INLET THREAD	HOSE INT Ø		
mm	in.							kg	lb	l/s	cfm	in.	mm	in.	
SANDERS WITH PALM GRIP, ORBIT Ø 5mm (3/16")															
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM									
170x93	65/8 x 35/8	SV3	615 170 066 0	SV3-8	615 170 074 0	SV3-14	615 170 070 0	1.7	3.74	11	23	1/4	8	5/16	
SANDERS WITH HANDLE GRIP, ORBIT Ø 5mm (3/16")															
		NON-VACUUM		EXTERNAL VACUUM		SELF VACUUM									
170x93	65/8 x 35/8	SV3P	615 170 067 0	SV3P8	615 170 075 0	SV3P14	615 170 071 0	1.8	3.96	11	23	1/4	8	5/16	
215x113	81/2 x 41/2	SV4P	615 170 068 0	SV4P8	615 170 076 0	SV4P14	615 170 072 0	1.9	4.19	11	23	1/4	8	5/16	

Accessories

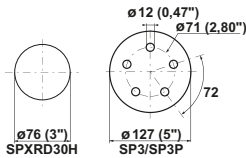


SP3 / SP3P / SPXRD30H

ACCESSORIES INCLUDED

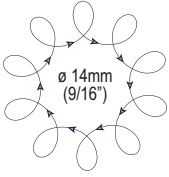
	SP3/SP3P	SPXRD30H
• 1/4" air hose nipple for 8mm (5/16") ID hose	615 704 019 0	
• 1/4" air hose nipple for 6mm (1/4") ID hose		615 705 009 0
• Clamping lever	615 595 202 0	
• Small grip (medium-size grip fitted on sander)		615 303 109 0
• Bail hook		615 571 060 0

PADS: Thread 5/16"-24	FOR HOOK & LOOP ABRASIVE
• Pad ø 127mm (5") for SP3 / SP3P	615 990 123 0
• Pad ø 76mm (3") for SPXRD30H	615 990 178 0



Random orbital polishers Ø 76mm (3") - Ø 127mm (5")

210 and 375 Watts (0.3 and 0.5 hp) - 10000 and 12000 rpm



SP3



SP3P

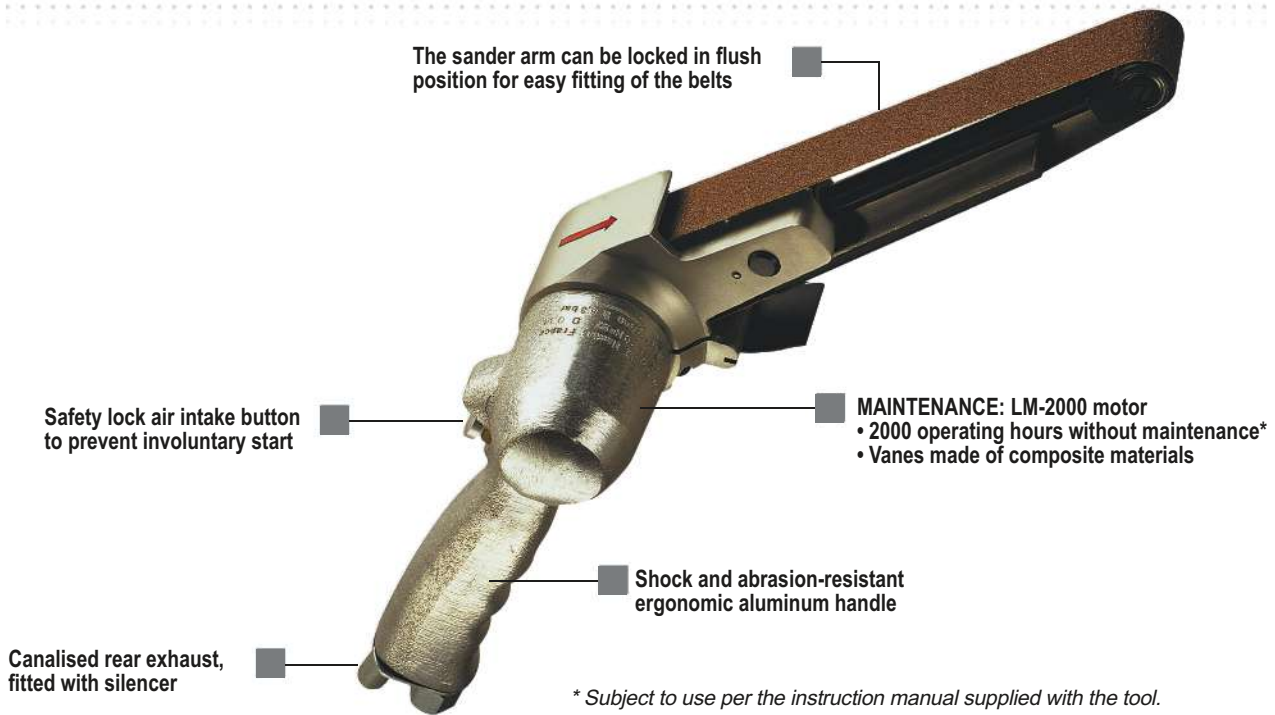


SPXRD30H

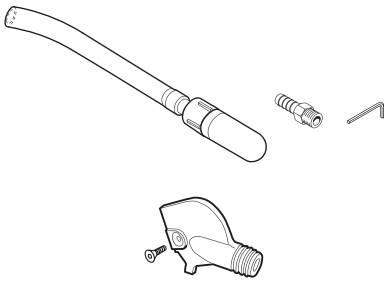
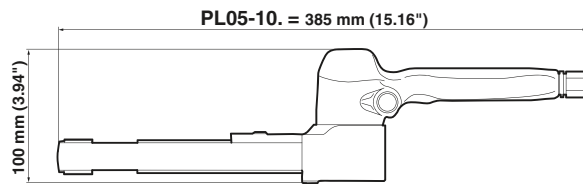
Caution: comply with the speeds recommended by component and abrasive manufacturers.

PAD SIZE		MODEL	PART NUMBER	WEIGHT		AIR CONSUMPTION AT MAX. OUTPUT		AIR INLET THREAD	HOSE INT Ø		
mm	in.			kg	lb	l/s	cfm		in.	mm	in.
POLISHER WITH PALM GRIP, ORBIT Ø 14mm (9/16")											
NON-VACUUM											
Ø 127	5	SP3	615 170 198 0	1.2	2.64	11	23	1/4	8	5/16	
POLISHER WITH HANDLE GRIP, ORBIT Ø 14mm (9/16")											
NON-VACUUM											
Ø 76	3	SPXRD30H	615 170 332 0	0.9	1.98	11	23	1/4	8	5/16	
Ø 127	5	SP3P	615 170 197 0	1.3	2.86	11	23	1/4	8	5/16	

Belt sanders



Accessories



PL05-10D / PL05-10E / PL05-10F

ACCESSORIES INCLUDED

	PART NO.
• Exhaust hose	615 396 022 0
• 1/4" air hose nipple for 6mm (1/4") ID hose	615 705 009 0
• Hex. key 4 mm	615 802 054 0

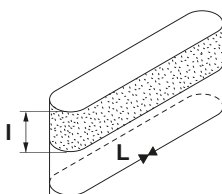
OPTIONAL ACCESSORIES

	PART NO.
• Suction cap for 32mm (1-1/4") ID vacuum hose	321003
• Screw FHc M4x10	615 616 118 0

OPTIONAL ACCESSORIES

COATED ABRASIVE BELTS

L x l		GRIT NUMBER			
mm	in.	P40	P60	P80	P100
480 x 16	18-7/8" x 5/8	615 811 217 0	615 811 218 0	615 811 219 0	615 811 220 0
480 x 20	18-7/8" x 25/32	615 811 223 0	615 811 224 0	615 811 225 0	615 811 226 0
480 x 25	18-7/8" x 63/64	615 811 230 0	615 811 231 0	615 811 232 0	615 811 233 0
L x l		GRIT NUMBER			
mm	in.	P120	P150	P180	P240
480 x 16	18-7/8" x 5/8	615 811 221 0	615 811 222 0		
480 x 20	18-7/8" x 25/32	615 811 227 0	615 811 228 0	615 811 229 0	
				615 811 236 0	615 811 237 0



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Belt sanders

300 Watts (0.4 hp) - 16000 rpm



A



B



C



Caution: comply with the speeds recommended by component and abrasive manufacturers.

PIC REF	MODEL	PART NUMBER	FREE SPEED	BELT SIZE		POWER		WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR INLET THREAD		HOSE INT. Ø	
				rpm	mm	in.	W	hp	kg	lb.	l/s	cfm	in.	mm	in.
A	PL05-10D	615 170 131 0	16000	480 x 16	18-7/8 x 5/8	300	0.4	1.2	2.6	12	25.4	1/4	6	1/4	
B	PL05-10E	615 170 132 0	16000	480 x 20	18-7/8 x 25/32	300	0.4	1.2	2.6	12	25.4	1/4	6	1/4	
C	PL05-10F	615 170 1	16000	480 x 20	18-7/8 x 25/32	300	0.4	1.2	2.6	12	25.4	1/4	6	1/4	



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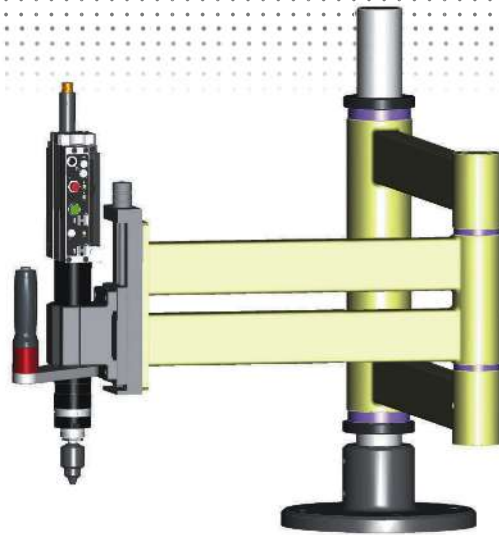
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AFD Applications

Ease of Integration into Machine or Process

- Extensive range of mounting clamps
- Control interfaces to link AFD(E) to other equipment through pneumatics or electrically
- Single signal required for AFD(E) to perform cycle
- Output signals at datum and depth
- Electric motor mounting on 200, 400 and 600 series can be rotated 180°



Comprehensive range of Product

- For single spindle operations to multi spindle processes
- Pneumatic and electric drive from 0.22 to 1.1kW (0.3 to 1.47hp) with thrusts up to 1735N (390lbf)
- Reliability through quality



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Modular Design

- Flexibility of unit function and speed
- Common components in different models reduce inventory
- Multiple spindle head options
- Drilling and tapping options for all models



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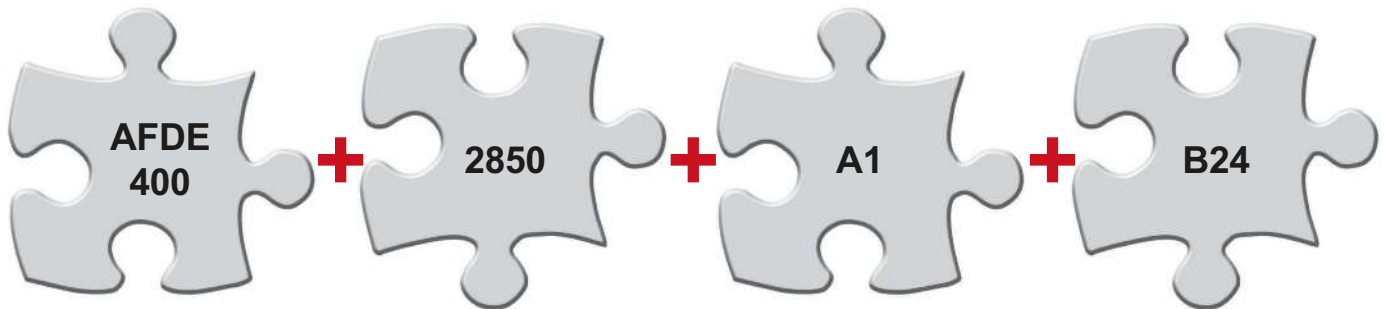
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Modular sales concept

More than 1500 different versions



Model Type	No Load Speed	CONTROL BLOCK	Output Spindle
<p>Pneumatic Feed and Drive AFD205 0.22kW (0.30hp) AFD215 0.22kW (0.30hp) AFD415 0.38kW (0.51hp) AFD684 0.62kW (0.83hp)</p> <p>Pneumatic Feed, Electric Drive AFDE200 0.25kW (0.34hp) AFDE400 0.33kW (0.44hp) AFDE410 0.75kW (1.00hp) AFDE610 0.75kW (1.00hp) AFDE620 1.10kW (1.50hp)</p> <p>Electric Feed and Drive via Leadscrew AFTE480 0.75kW (1.00hp)</p>	<p>The free output speed of the drill or tapper with no drilling or tapping load applied.</p>	<p>A1 – Full feature type⁽¹⁾ – Automatic cycle A6 – Simple type⁽¹⁾ – Remote cycle control Control block AFTE – Leadscrew type - PNP – Leadscrew type - NPN</p>	<p>Code Output type – Chuck – Collet (up to 8mm (5/16")) – Preset Tooling DIN55058 – 6.5mm (1/4") & 8mm (5/16") Tapping Gearbox – B16 Taper – Jacobs No1 & No2 – ISO30 Taper – Multi Head / Tapping – Gearbox Adaptor – High Speed Gearbox</p>

+ Optional

- HCU
- Clamps
- Interface K

Air Motors

ADVANTAGES

Air motors are versatile power sources which can be used to power many kinds of operations requiring a rotational drive. They have many advantages over electric motors, and often become the only feasible method of operation.



ATEX available

LARGE CHOICE OF POTENTIAL CUSTOMERS



Textile



Marine



Petrochemical



Food Processing



Agricultural Equipment



Printing Machinery



Chemical



Strapping Machinery

Desoutter offers a wide range of rotating vane air motors in **stainless steel** and **lubrication free** versions, with power ranging from 0.16 KW (0.21 hp) to 2.8 KW (3.75 hp). Most motors can be supplied as either unidirectional with a threaded shaft or reversible with a keyed shaft. Alternative output options are also available.

Desoutter air motors can also be **Atex certified** for environments with potentially explosive atmospheres.

Air motors are an ideal solution for many applications in such varied equipment as material handling, packaging, strapping or printing machinery, petrochemical and agricultural equipment, food processing machinery, and many more custom and standard machines.

Air motors offer many advantages over electric motors, and are often the only feasible option for driving.



desoutter.info/AirMotors



ATEX AVAILABLE
 II 2G T4 IIC D110°C or II 2G T5 IIC D85°C
 or II 2G c IIC T6



M16-KL, M16-KSL Series

0.16 KW (0.21 hp)
 Maximum torque, 8.5 Nm (6.3 ft.lb)
 Keyed shaft
 Standard and stainless steel
 Reversible and non reversible



M25-KL / TL, M25-KSL Series

0.27 KW (0.36 hp)
 Maximum torque, 22 Nm (16.2 ft.lb)
 Keyed shaft, threaded shaft
 Standard and stainless steel
 Reversible and non reversible



M39-KL / TL, M39-KSL Series

0.39 KW (0.52 hp)
 Maximum torque, 26 Nm (19.2 ft.lb)
 Keyed shaft, threaded shaft
 Standard and stainless steel
 Reversible and non reversible



M84-K Series

0.84 KW (1.13 hp)
 Maximum torque, 485 Nm (358 ft.lb)
 Keyed shaft
 Reversible and non reversible



2H410 Series

0.66 KW (0.85 hp)
 Maximum torque, 102 Nm (75.2 ft.lb)
 Worm drive motors



M180 Series

1.83 KW (2.45 hp)
 Maximum torque, 337 Nm (249 ft.lb)
 Reversible and non reversible



M290 Series

2.8 KW (3.75 hp)
 Maximum torque, 536 Nm (395 ft.lb)
 Reversible and non reversible



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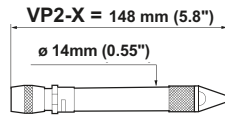
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Accessories



VP2-X

ACCESSORIES INCLUDED

	PART NO.
• Air Hose - 3.2mm bore - Length 2m (78.7") - 1/8" - 1/4" BSP	75902
• Tungsten carbide tipped needle	63213
• Key	63533

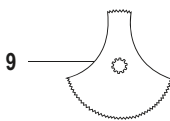
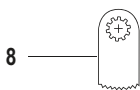
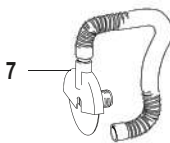
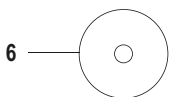
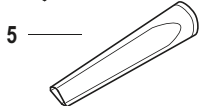
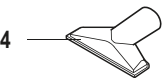
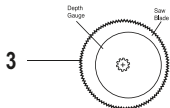
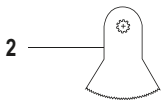
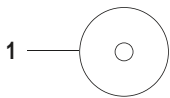
D144-T-.. / S144-T-.. / D172-L / AV101

ACCESSORIES INCLUDED

ITEM	APPLICATION	PART NO.			
		D144-T	S144-T	D172-L	AV101
• Exhaust hose		222453		222453	
• Exhaust Hose Clip		235203		235203	
• Spindle Wrench		164433		15533	
• Clamp Nut Wrench		29443			
• Guard Nut Wrench		29653			
• Hex. Key - 4mm (5/32") A/F		204903		204903	
1 Saw Blade - diamond coated 64mm (2.5") dia.	Fibreglass	32732			
1 Saw Blade - 80 teeth 45mm (1.77") dia.	Soft Steel <1.2mm (3/64")		76362		
1 Saw Blade 64mm (2.5") dia.	Plastics			90762	
1 Saw Blade - teflon coated 64mm (2.5") dia.	Plastics			90772	
2 Saw Blade 50.8mm (2") radius x 50mm (1.97") wide	Soft Wood			90832	
3 Depth Gauge				27262	
4 Upholstery Nozzle					106443
5 Crevice Nozzle					106533

OPTIONAL ACCESSORIES

ITEM	APPLICATION	PART NO.		
		D144-T	S144-T	D172-L
1 Saw Blade - 80 teeth 45mm (1.77") dia	Soft Steel <1.2mm (3/64")			76362
6 Saw Blade 64mm (2.5") dia.	Wood	34252		
6 Saw Blade 50mm (1.97") dia.	Soft Steel >1.2mm (3/64") max depth 7mm		76372	
6 Saw Blade 50mm (1.97") dia.	Hard Steel <1.2mm (3/64") max depth 10mm (3/8")		76382	
6 Saw Blade 50mm (1.97") dia.	Aluminium max depth 10mm (3/8")		76392	
7 Dust Extraction Hood includes 2m hose - 32mm (1.26") ID				78472
6 Saw Blade - diamond tipped 64mm (2.5") dia.	Fibreglass			16962
6 Saw Blade - diamond tipped 1.2mm (3/64") tooth pitch - 64mm (2.5") dia.	Fibreglass			90722
6 Saw Blade - diamond tipped 1.2mm (3/64") tooth pitch - 80mm (3.15") dia.	Fibreglass			90732
6 Saw Blade - 1.5mm (0.06") tooth pitch 51mm (2") dia.	Soft Wood			90782
6 Saw Blade - 1.8mm (0.07") tooth pitch 64mm (2.5") dia.	Soft Wood			90792
6 Saw Blade - 1.5mm (0.06") tooth pitch 76mm (3") dia.	Soft Wood			90802
8 Saw Blade 22mm (0.87") radius x 15mm (19/32") wide	Soft Wood			90822
9 Saw Blade 64mm (2.5") dia.	Soft Wood			90842



Miscellaneous



A



B



C



D



E



F

PIC REF	MODEL	PART NUMBER	BLOWS PER MINUTE	WEIGHT		AIR CONSUMPTION AT FREE SPEED		AIR INLET THREAD	HOSE INT. Ø	
			Blows/min	kg	lb.	l/s	cfm	in.	mm	in.

AIR SCRIBE

A	VP2-X	671094	11400	0.1	0.2	0.9	1.9	1/8	3.2	1/8
---	-------	--------	-------	-----	-----	-----	-----	-----	-----	-----

PIC REF	MODEL	PART NUMBER	FREE SPEED	OSCILLATING FREQUENCY	BLADE Ø		WEIGHT		LENGTH		AIR CONSUMPTION		AIR INLET THREAD	HOSE INT. Ø	
			rpm	c/min	mm	in.	kg	lb.	mm	in.	l/s	cfm	in.	mm	in.

FIBREGLASS SAW - capacity 13mm (1/2") depth

B	D144-T-3100	615 170 519 0	3100	-	64	2.5	0.9	2.0	229	9.01	9.4	19.9	1/4 BSP	10	3/8
---	-------------	---------------	------	---	----	-----	-----	-----	-----	------	-----	------	---------	----	-----

CIRCULAR SAW - capacity 10mm (3/8") depth (hard steel 1.2mm (3/64") depth)

C	S144-T-3100	936974	3100	-	45	1.77	1.4	3.1	245	9.65	9.4	19.9	1/4 BSP	10	3/8
---	-------------	--------	------	---	----	------	-----	-----	-----	------	-----	------	---------	----	-----

OSCILLATING SAW

D	D172-L	615 170 520 0	-	20000	80	3.2	0.74	1.6	273	10.75	9.5	20	1/4 BSP	10	3/8
---	--------	---------------	---	-------	----	-----	------	-----	-----	-------	-----	----	---------	----	-----

VACUUM CLEANER

E	AV101	128534	-	-	-	-	0.7	1.54	202	7.95	5.9	12.5	1/4 BSP	6	1/4
---	-------	--------	---	---	---	---	-----	------	-----	------	-----	------	---------	---	-----

VACUUM PEN

F	V100	129504	-	-	-	-	0.45	0.99	137	5.39	0.7	0.33	3.6 Spline	4	5/32
---	------	--------	---	---	---	---	------	------	-----	------	-----	------	------------	---	------



Made in France

ATTENZIONE!
AVVERTENZA
TO REDUCE RISK OF INJURY
READ AND UNDERSTAND
SAFETY INSTRUCTIONS
SUPPLIED WITH TOOL.

Air Line Accessories

Desoutter Air Line Accessories are specially developed to be used with Desoutter Tools & Equipments

Desoutter Air Line Accessories can also be used with other pneumatic products

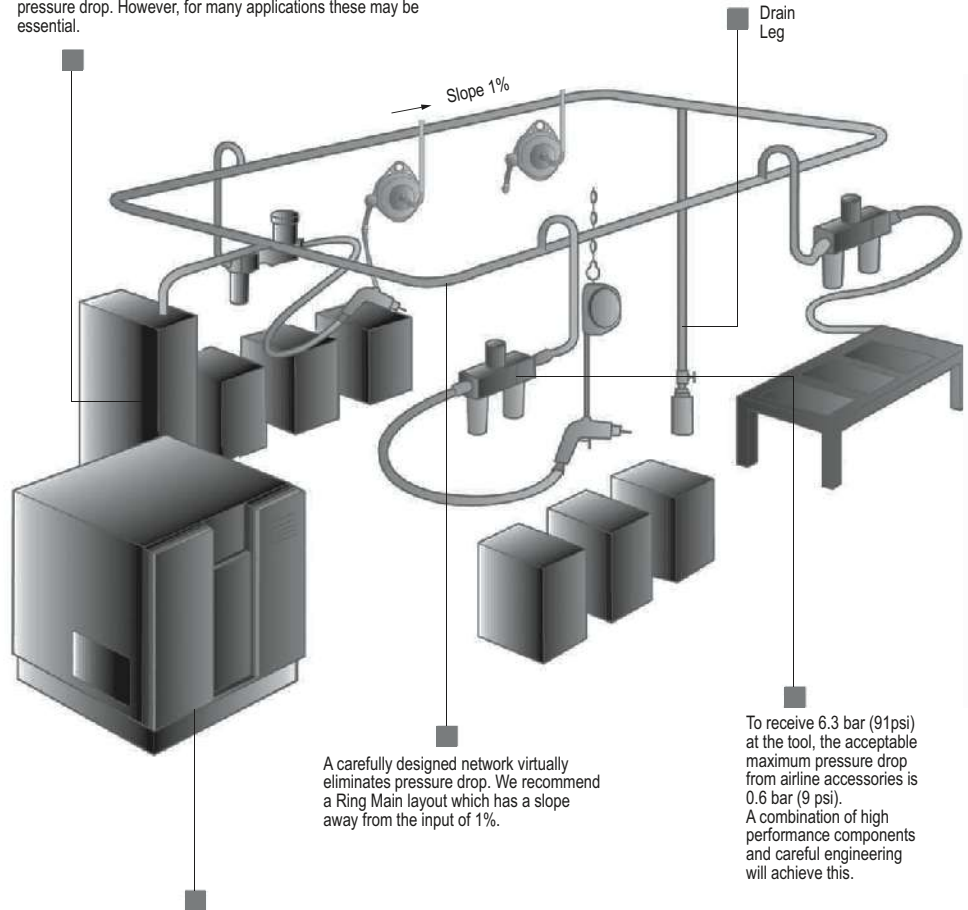
All accessories can be used for other applications with any pneumatic equipments

Desoutter Air Preparation Units are designed to help you get maximum performance from your tools

They ensure minimal pressure drop and thus minimum energy losses in the air distribution system, benefiting the environment and cutting your operating costs

The lifetimes of your tools will be extended by using air preparation units and with that comes lower repair costs and less downtime. A correct air installation guarantees productivity and good total economy

Air dryers and filters can cause a 0.2 - 0.3 bar (3-4 psi) pressure drop. However, for many applications these may be essential.



A normal compressor can deliver up to 7.5 bar (109 psi) air line pressure, depending on start and stop settings.

A carefully designed network virtually eliminates pressure drop. We recommend a Ring Main layout which has a slope away from the input of 1%.

To receive 6.3 bar (91psi) at the tool, the acceptable maximum pressure drop from airline accessories is 0.6 bar (9 psi). A combination of high performance components and careful engineering will achieve this.

When developing the Desoutter Air Line Accessories range, we have focused on Performance, Quality, Ergonomics and Safety. Based on this, we now offer a wide range of accessories for optimal air line installation.

Our accessories enable to reach higher productivity with lower energy consumption, a sustainable reduction of energy costs and an extended lifetime of your tools

Performance

In order to get the best performance out of your air line installation it is key to supply air at a constant pressure (6.3 bar) This, together with minimizing the pressure drop, is the primary focus when designing the Desoutter couplings, hoses and FRLs

The result is not only a better performance in terms of a reduction of energy costs but also in a better lifetime of the tools

Ergonomics and Safety

To further improve the comfort of use for our customers we now offer hoses in our EFFI line with lower weight and more flexible. In combination with Easy Flow, Safety couplings, Airflex and high quality balancers you can build up a workplace where the operators' safety and ergonomics are in focus

Quality

All our products are developed to perform in industrial applications. Desoutter Accessories are made with the highest quality materials to ensure the best possible performance and lifetime of

Air preparation units

FILTERS, REGULATORS, LUBRICATORS

Why should you use a filter, regulator and lubricator ?

The use of a filter, regulator and lubricator (in that order) for pretool air preparation is strongly recommended by Desoutter. Proper air preparation will result in improved tool performance and increased tool life. The units should be mounted as close to the tool as possible, preferably right where the tool hose is connected to the system. To realize their full value, these units should be checked on a regular assigned basis by maintenance workers or the operators themselves

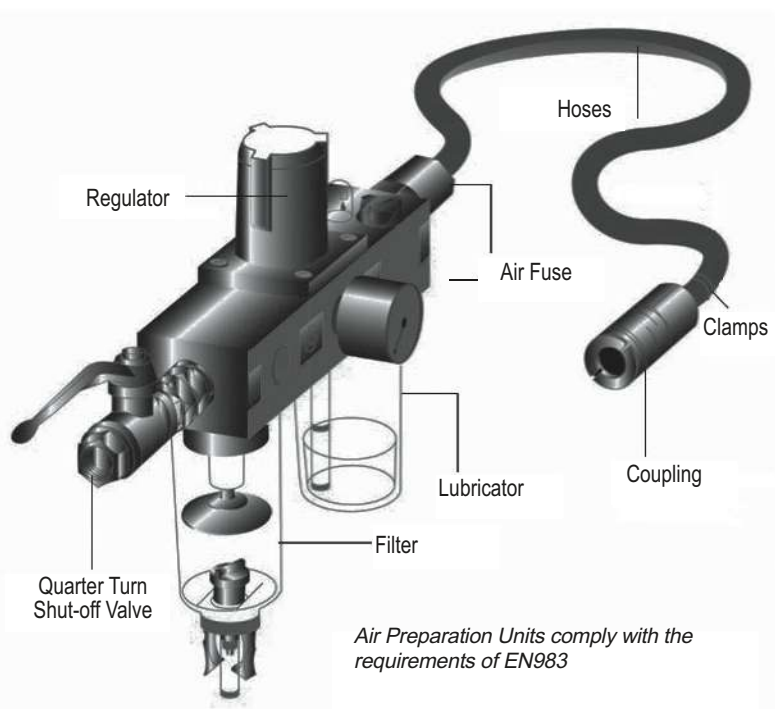
Air filter

Filter separates impurities such as water and solid particles.

Not using filters in combination with air tools leads to shorter service life, higher maintenance costs and lower efficiency. Old air systems with cool dryers, for instance, generate a lot of rust and running tools without installing a filter could damage the tool in less than a week. Desoutter filters separate up to 98% of the water when operating within their working range. All three types (Small, Medium and Big) are very low pressure drop.

Regulator

The regulator ensures that the pre-set working pressure remains constant - regardless of pressure variations in the intake air and minor variations in the airflow rate. For example, a pressure of 1 bar higher than necessary results in a 16% increase in air consumption. Spring controlled regulators are quick acting and therefore should be used for all types of air tools.



TOOL PRESSURE	AIR CONSUMPTION
91 psi (6 bar)	100 %
101 psi (7 bar)	110 %
116 psi (8 bar)	125 %

Lubricators

If lubricators are not used, tool motor vanes will need to be changed more often. The life of the vanes may decrease to as little as 1/10th of the normal working time. The oil fog lubricator is the most common type of lubricator. It supplies a mist of oil to the air hose.

DIFFERENT TYPES OF FRL	PORT SIZE IN.	AIR FLOWS AT 6 BARS CFM (L/S)
Small units	1/4 3/8	Up to 19 (9) Up to 29.7 (14)
Medium units	1/2	Up to 78.4 (37)
Big units	1	Up to 175.9 (83)

Air preparation units



Max air flow Δ 14.5 PSI (1 bar)



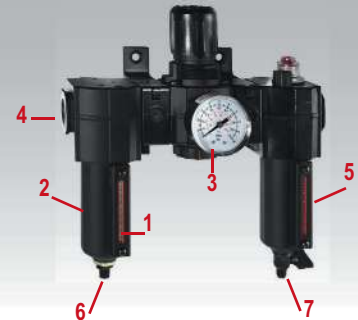
FEATURES AND BENEFITS

High air flow capacity: up to 104 l/s (220 cfm) to cover most of the pneumatic tool needs

Available in kits: 1/4", 1/2", 3/4", BSP or NPT, 2 or 3 stages units or individual units.

Durable design including quick release bayonet metal bowls for rough working environments

- (1) Liquid level indicator on the bowls for improved reading
- (2) Filter with 5µm element pre-installed to optimize the air cleaning and with automatic drain valve
- (3) Supplied with metal pressure gauge 0-10 bar (0-145 PSI) with metric and imperial scales
- (4) 10-17 bar (145-245 PSI) inlet / outlet max. pressure
- (5) Micro fog lubricator to optimize the air/oil ratio
- (6) Automatic drain valve
- (7) Manual drain



FILTER-REGULATOR LUBRICATOR WITH PRESSURE GAUGE (0-150PSI - 0-10 BAR)	THREAD in.	MAX. AIR FLOW		MAX. PRESSURE Inlet (psi/bar)	OIL CAPACITY		PART NUMBER	
		cfm	l/s		oz	ml	NPT	BSP
2 STAGE	1/4 G	24	11	150/10	3.4	100	894 016 851 5	894 016 847 8
2 STAGE	1/2 G	110	50	246/17	6.8	201	894 016 851 7	894 016 848 0
2 STAGE	3/4 G	220	100	246/17	6.8	201	894 016 851 9	894 016 848 3
3 STAGE	1/4 G	24	11	150/10	3.4	100	894 016 851 6	894 016 847 9
3 STAGE	1/2 G	110	50	246/17	6.8	201	894 016 851 8	894 016 848 1
3 STAGE	3/4 G	220	100	246/17	6.8	201	894 016 852 0	894 016 848 4

Included with the units: Filter 5µm, Pressure gauge 0-150 psi - 0-10 bar, Microfog lubricator, Automatic drain valve

FILTER UNIT	THREAD in.	PART NUMBER	
		NPT	BSP
1 STAGE	1/4 G	894 016 909 1	894 016 909 0
1 STAGE	1/2 G	894 016 909 9	894 016 909 8
1 STAGE	3/4 G	894 016 910 7	894 016 910 6

REGULATOR UNIT	THREAD in.	PART NUMBER	
		NPT	BSP
1 STAGE	1/4 G	894 016 909 3	894 016 909 2
1 STAGE	1/2 G	894 016 910 1	894 016 910 0
1 STAGE	3/4 G	894 016 910 9	894 016 910 8



PRESSURE GAUGE	SIZE		Ø	MAX PRESSURE	PART NO.
	in.	mm			
1/8" - 0-10	1/8"G	1.57	40	150 PSI (10bar)	894 016 917 8
1/8" - 0-10	1/8"NPT	1.57	40	150 PSI (10bar)	894 016 917 9
1/8" - 0-10	1/8"G	1.97	50	150 PSI (10bar)	894 016 918 0
1/8" - 0-10	1/8"NPT	1.97	50	150 PSI (10bar)	894 016 918 1



LUBRICATOR UNIT	THREAD in.	PART NUMBER	
		NPT	BSP
1 STAGE	1/4 G	894 016 909 5	894 016 909 4
1 STAGE	1/2 G	894 016 910 3	894 016 910 2
1 STAGE	3/4 G	894 016 911 1	894 016 911 0

FILTER-REGULATOR	THREAD in.	PART NUMBER	
		NPT	BSP
1 STAGE	1/4 G	894 016 909 7	894 016 909 6
1 STAGE	1/2 G	894 016 910 5	894 016 910 4
1 STAGE	3/4 G	894 016 911 3	894 016 911 2

SPRAY PAINT UNIT	PART NUMBER
Filter 0.01µM	894 017 047 2

 **LUBRICATION**
see page 268 

Hoses

Desoutter offers the highest quality of PVC, Rubber and Polyurethane hoses in the Industrial Line to cover the different needs of applications with Power Tools

In addition to this, the EFFI series is designed with special features such as low weight and flexibility, to meet the highest ergonomic demands, as well as antistatic for applications with ESD demands

HOSES

HOSE RECOMMENDATIONS

DESCRIPTION	EFFI MAX	POLYURETHAN	RUBBER
Flexibility	++	++	+
Lightweight	++	++	+
Outdoor	+++	+	+++
Spark resistant	+++	-	+++
Rough environment	+++	++	+++
Antistatic	+++	-	+++
Temperature range	-40 to +194F° -40 to +90°C	-22 to +176F° -30 to +80°C	-40 to +194F° -40 to +90°C



At recommended air flow the pressure drop is 0.2 bar (2.9 PSI) with a hose length of 5m (16ft). Recommendation is to upgrade one size in diameter for every 10m (32.8ft) of hose length

EFFI Series

EFFI is a unique premium line of hoses designed with special features such as antistatic, extreme low weight, resistance and durability that will help the operator to maximize the tool productivity.

EFFI MAX HOSES

Aimed to generic grinding applications

- Extreme low weight
- Antistatic
- Rubber hose
- Soft and flexible
- Welding spatter resistant



DIMENSIONS (IDxOD)		LENGTH		MAX WORKING PRESSURE*	AIR FLOW		WEIGHT PER 20M / 65.6FT		PART NUMBER
in. ID	mm	ft	m	PSI (bar)	cfm	l/s	lb	kg	
3/8	9.5x12.5	65.6	20		27.6	13	6.4	2.9	894 016 992 1
1/2	13x18.6	65.6	20	232 (16)	44.5	21	8.6	3.9	615 810 900 0
5/8	16x22.5	65.6	20	232 (16)	91.1	43	10.6	4.8	615 810 901 0
3/4	20x26.1	65.6	20	232 (16)	159	75	11.9	5.4	615 810 902 0

RUBBER HOSES

Aimed to the most demanding tasks in construction, mining, shipyards, foundries etc.

- Durable
- Antistatic
- Grinding and welding spatter resistant



DIMENSIONS (IDxOD)		LENGTH		MAX WORKING PRESSURE*	AIR FLOW		WEIGHT PER 20M / 65.6FT		PART NUMBER
in. ID	mm	ft	m	PSI (bar)	cfm	l/s	lb	kg	
3/8	10x16	65.6	20	232 (16)	27.5	13	7.9	3.6	615 810 864 0
1/2	12.5x19.1	65.6	20	232 (16)	44.5	21	10.4	4.7	615 810 865 0
5/8	16x23	65.6	20	232 (16)	91.1	43	13.4	6.1	615 810 866 0
3/4	20x26.6	65.6	20	232 (16)	159	75	17.2	7.8	615 810 868 0
1	25x34	65.6	20	232 (16)	265	125	26.0	11.8	615 810 870 0

POLYURETHANE HOSES

Aimed to heavy duty applications for indoor and outdoor use

- Oil resistant
- Flexible
- Long service life
- PVC free: Environment friendly



DIMENSIONS (IDxOD)		LENGTH		MAX WORKING PRESSURE*	AIR FLOW		WEIGHT PER 25M / 82FT		PART NUMBER
in. ID	mm	ft	m	PSI (bar)	cfm	l/s	lb	kg	
1/4	6.5x10	82	25	290 (20)	8.5	4.0	2.9	1.3	615 804 623 0
5/16	8x12	82	25	290 (20)	15.9	7.5	4.8	2.2	615 804 624 0
3/8	9.5x13	82	25	232 (16)	27.5	13.0	5.5	2.5	615 804 625 0
1/2	13x18	82	25	188 (13)	44.5	21.0	8.8	4.0	615 804 626 0

* With a safety factor of 37.4 psi at 68F° (3 bar at 20°C)

Industrial Air & Electric Tools should be reduced by 50%



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Hoses

HOSE KITS

Hose kits are equipped with end thread fittings and available in short length, ready to connect and ready to use.



DIMENSIONS (IDxOD)		MALE		LENGHT		PART NUMBER		HOSE MATERIAL
in. ID	mm	in.	ft	m	NPT	BSP		
1/4	6.5x10	1/4	26.2	8	615 811 213 0	615 804 627 0	PU	
5/16	8x12	1/4	26.2	8	615 811 214 0	615 804 628 0	PU	
3/8	10x13	1/4	26.2	8	615 811 215 0	615 804 629 0	PU	
3/8	10x13	3/8	26.2	8	615 811 240 0	615 811 238 0	PU	
1/2	13x18	1/2	26.2	8	615 811 216 0	615 804 630 0	PU	
1/2	13x18	3/8	26.2	8	615 811 241 0	615 811 239 0	PU	
5/8	16x23	1/2	26.2	8	615 811 268 0	615 811 267 0	Rubber	

EFFI MAX WHIPS

Always use a hose whip between the tool and the air supply hose. It provides safety and longer tool air inlet life.



HOSE DIAM.		THREAD SIZE		HOSE LENGHT		PART NUMBER	
in.	mm	in.	ft	m	NPT	BSP	
1/4	6.5	1/4	2.0	0.6	CA046270	615 811 191 0	
3/8	10	1/4	2.0	0.6	CA047270	615 811 192 0	
1/2	13	3/8	2.0	0.6	CA049271	615 811 264 0	
1/2	13	1/2	2.0	0.6	CA049270	615 811 193 0	
5/8	16	1/2	2.0	0.6	615 811 266 0	615 811 265 0	

POLYURETHANE SPIRAL HOSE

Spiral hose are especially adapted for tools used at varying distances. Vertically or horizontally, together with a balancer spiral hose, it is a step forward in ergonomics. Equipped with ball bearing at one end (except the 11x16), they can be directly connected at the tool outlet, avoiding the hose to twist

- Self retractable
- Light and flexible
- Strong and durable



DIMENSIONS (IDxOD)		MALE THREADS		WORKING LENGTH		LENGHT			PART NUMBER	
in. ID	mm	in.	ft	m	A	B	C	NPT	BSP	
					in. (mm)	in. (mm)	in. (mm)			
1/4	6.5x10	1/4	6.6	2	19.7 (500)	5.5 (140)	5.9 (150)	615 810 967 0	615 804 635 0	
1/4	6.5x10	1/4	13.1	4	19.7 (500)	13 (330)	5.9 (150)	615 810 968 0	615 804 636 0	
1/4	6.5x10	1/4	19.7	6	19.7 (500)	20.1 (510)	5.9 (150)	615 810 969 0	615 804 637 0	
1/4	6.5x10	1/4	26.2	8	19.7 (500)	27.6 (700)	5.9 (150)	615 810 970 0	615 804 638 0	
5/16	8x12	3/8	6.6	2	19.7 (500)	5.1 (130)	5.9 (150)	615 810 971 0	615 804 639 0	
5/16	8x12	3/8	13.1	4	19.7 (500)	11.8 (300)	5.9 (150)	615 810 972 0	615 804 640 0	
5/16	8x12	3/8	19.7	6	19.7 (500)	18.1 (460)	5.9 (150)	615 810 973 0	615 804 641 0	
5/16	8x12	3/8	26.2	8	19.7 (500)	24.8 (630)	5.9 (150)	615 810 974 0	615 804 642 0	
7/16	11x16	3/8	6.6	2	19.7 (500)	4.7 (120)	5.9 (150)	615 810 975 0	615 804 643 0	
7/16	11x16	3/8	13.1	4	19.7 (500)	10.6 (270)	5.9 (150)	615 810 976 0	615 804 644 0	
7/16	11x16	3/8	19.7	6	19.7 (500)	16.5 (420)	5.9 (150)	615 810 977 0	615 804 645 0	
7/16	11x16	3/8	26.2	8	19.7 (500)	22.4 (570)	5.9 (150)	615 810 978 0	615 804 646 0	

AIR FLEX

AIR FLEX RANGE



THE NEW AIR FLEX MAKES ALL RIGID HOSES FLEXIBLE AND MULTI-DIRECTIONAL.

Easy: less effort due to hose rigidity, makes work easier in hard to reach areas.

Less wear: no more premature hose wear.

Comfort and safety: no twisting, the hose remains in the ideal working position and lower the risk of tendinitis.

AIR FLEX

Aimed to improve the working ergonomics, Air flex connectors can rotate 360° eliminating efforts when working in cramped spaces

MULTI DIRECTION SWIVEL CONNECTOR	MAX RECOMMENDED FLOW		LENGTH		PART NUMBER		
	cfm	l/s	mm	in.	BSP	NPT	R
Air Flex 1/4"	25	12	67	2.63	615 804 746 0	615 804 747 0	615 995 559 0
Air Flex 3/8"	74	35	82	3.23	615 804 748 0	615 804 749 0	615 995 557 0
Air Flex 1/2"	74	35	82	3.23	615 804 750 0	615 804 751 0	615 995 558 0
Air Flex 1/4" with cover						615 811 375 0	



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Other accessories

OIL PROTECTO-LUBE



DESCRIPTION		PART NUMBER
4 oz (0.12 l)	Air Tool Oil	CA149661
20.8 oz (0.591 l)	Air Tool Oil	CA000046
1gal. (3.8 l)	Airoilene Oil	P089507

MINI OILER



DESCRIPTION	PART NUMBER
THREAD 1/4" NPT	205 052 412 3
THREAD 3/8" NPT	205 052 429 3

AIR FLOW REGULATOR



DESCRIPTION	PART NUMBER
Economic flow regulator 1/4"	LC121737
Heavy-duty flow regulator 1/4"	CA085203

360° SWIVEL AIR INLET

Aimed to improve the working ergonomics, Air flex connectors can rotate 360° eliminating efforts when working in cramped spaces



DESCRIPTION	PART NUMBER
Swivel	894 015 841 2

* Air Inlet: 1/4" BSP

BLOW GUN



DESCRIPTION	PART NUMBER
Blow gun standard	615 811 269 0
Blow gun standard silencer	615 811 270 0
Blow gun extended nozzle	615 811 271 0
Blow gun extended nozzle silencer	615 811 272 0

AIR FUSES

When a fitting comes loose from a pressurized hose or the hose is damaged, the hose starts to blow an excessive amount of air in an uncontrolled way, causing hose whip. This can cause injury, and damage to the workpiece and environment.

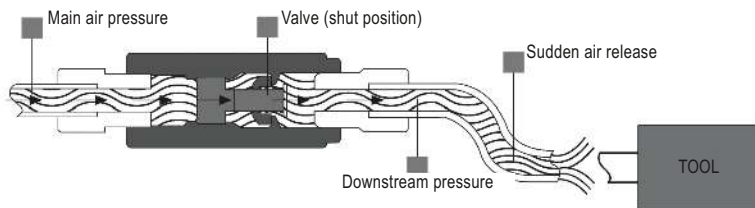
A way to ensure that this doesn't happen is to use an Air Fuse

It reduces the likelihood of potentially dangerous hose whip caused when a hose bursts or a fitting becomes detached. It quickly shuts off the supply and resets automatically as soon as back pressure in the line downstream is restored.

Air Fuses help to meet OSHA requirement 1926.302 (USA) and may eliminate the need for restraining or shielding hose, as required by European Standard EN983.



MATERIALS	
Body	Anodised aluminium
Internal parts	Brass
Spring	Stainless steel



- Reduces risk of hose whip, helping to protect personnel
- Simple and reliable design
- High life expectancy
- Aluminium anodised body for high corrosion resistance
- Auto-Reset to restart downstream activity with the minimum downtime

PORT SIZE	PRESSURE DROP AT SHUT OFF FLOW		SHUT OFF FLOW RATE AT 7 BAR		TOOL MAXIMUM AIR FLOW		FOR FLOW RATES	PART NUMBER	
	in.	bar	psi	l/s	cfm	l/s		cfm	BSP
1/4	0.14	2.03	7.8	16.4	5	10.5	Low	615 811 242 0	615 811 245 0
1/4	0.30	4.35	13	27.3	10	21.0	High	110402	615 811 246 0
3/8	0.14	2.03	18	37.8	10	21.0	Low	110422	615 811 247 0
3/8	0.30	4.35	32	67.2	25	52.5	High	110432	615 811 248 0
1/2	0.30	4.35	45	94.5	35	73.5	High	110442	615 811 249 0
3/4	0.30	4.35	75	157.5	60	126.0	High	615 811 243 0	615 811 250 0
1	0.30	4.35	86	180.6	70	147.0	High	615 811 244 0	110542

TEST EQUIPMENT

AIR TOOL SIMULATOR / AUDIT CASE



DESCRIPTION	PART NO.
Air tool simulator	615 811 009 0
Audit case	615 811 353 5

Air tool simulator:

To check whether the pressure or air flow is sufficient

The air tool simulator will be connected instead of the pneumatic tool

Supplied with different connections

Audit case:

Intended to conduct tests measuring the dynamic pressure at the tool inlet



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Couplings

Desoutter offers a wider range of couplings to create the best possible solution together with Power Tools. The range consists of four types of couplings with different characteristics, all with the focus on quality, ergonomics and performance. To cover most of the global needs Desoutter offers three types of nipple profiles, Euro-, ISO 6150B- and the Asian profile. With the Easy Flow coupling Desoutter can present a unique coupling with no air restriction, minimizing the pressure drop. Thanks to its innovative design EF is suited for rough environment and it is easy and secure to connect and disconnect with the push and bend principle. The safety feature in EF and Safety Couplings are vented versions to minimize the risk of sudden separation of coupling and nipple.

	AIR FLOW	SAFETY FEATURE	ROUGH ENVIRONMENT	DURABILITY	ERGONOMICS
EF	+++	++	++	++	+++
Safety	++	+++	+	+	+
Quick Release	++	-	+	++	+++
Claw	+++	-	+++	+++	-

Max air flow capacity (Delta 0.5 bar / 7.2 psi) - Economical air flow (Delta 0.2 bar / 2.9 psi)

FITTINGS ADAPTABILITY

NIPPLE		ISO6105B 6MM	EURO 7.6MM	EURO 10.4MM	ASIA 7.5MM
CEJN	310	X			
	320		X		
	410			X	
TEMA	1300	X			
	1600		X		
	1700			X	
					X
ARO	23-23902	X			
RECTUS	14 - 22	X			
	25 (KA, KB, KD, KE, KL, KS)		X		
	26 (KA, KB, KE)		X		
	27			X	
PREVOST	ARM-ASC-ARC-06 ESC 07	X	X		
LEGRIS	14 - 22	X			
	25 (KA, KB, KD, KE, KL, KS)		X		
NITTO	Hi CUPLA200				X

EF COUPLING - Euro Series: Europe

EF COUPLING - EURO 7.6MM / Max air flow capacity 37.5 l/s - 79 cfm (Delta 0.5 bar / 7.2 psi)

Economical air flow 25 l/s - 53 cfm (Delta 0.2 bar / 2.9 psi)



MALE THREAD	PART NUMBER
in.	BSP
1/4	615 810 5140
3/8	615 810 5150
1/2	615 810 5160



FEMALE THREAD	PART NUMBER
in.	BSP
1/4	615 810 5170
3/8	615 810 5180
1/2	615 810 5190



HOSE CONNECTION	PART NUMBER
mm	
6	615 810 5500
8	615 810 5530
10	615 810 5540
13	615 810 5550

NIPPLES EURO 7.6MM



MALE THREAD	PART NUMBER	
in.	BSP	NPT
1/4	615 810 588 0	615 810 594 0
3/8	615 810 589 0	615 810 595 0
1/2	615 810 590 0	615 810 596 0



FEMALE THREAD	PART NUMBER
in.	BSP
1/4	615 810 591 0
3/8	615 810 592 0
1/2	615 810 593 0



HOSE CONNECTION	PART NUMBER
mm	
6	615 810 622 0
8	615 810 625 0
10	615 810 626 0
13	615 810 627 0

EF COUPLING - EURO 10.4MM / Max air flow capacity 72 l/s - 153 cfm (Delta 0.5 bar / 7.2 psi)

Economical air flow 48 l/s - 102 cfm (Delta 0.2 bar / 2.9 psi)



MALE THREAD	PART NUMBER
in.	BSP
3/8	615 810 639 0
1/2	615 810 640 0
3/4	615 810 641 0



FEMALE THREAD	PART NUMBER
in.	BSP
3/8	615 810 642 0
1/2	615 810 643 0
3/4	615 810 644 0



HOSE CONNECTION	PART NUMBER
mm	
10	615 810 651 0
13	615 810 652 0
16	615 810 653 0

NIPPLES EURO 10.4MM



MALE THREAD	PART NUMBER	
in.	BSP	NPT
3/8	615 810 665 0	615 810 668 0
1/2	615 810 666 0	615 810 669 0
3/4	615 810 667 0	615 810 670 0



FEMALE THREAD	PART NUMBER
in.	BSP
3/8	615 810 671 0
1/2	615 810 672 0
3/4	615 810 673 0



HOSE CONNECTION	PART NUMBER
mm	
10	615 810 677 0
13	615 810 678 0
16	615 810 679 0
	615 810 680 0

Couplings

EF COUPLING - ISO 6150B MIL-C4109: North America, France, Italy

EF COUPLING - ISO 6150B 6 mm / Max air flow capacity 16.7 l/s - 36 cfm
(Delta 0.5 bar / 7.2 psi)

Economical air flow 11 l/s - 23.3 cfm (Delta 0.2 bar / 2.9 psi)

NIPPLES ISO 6150B 6 mm



MALE THREAD	PART NUMBER	
	BSP	NPT
1/4	615 810 485 0	615 810 479 0
3/8	615 810 486 0	615 810 480 0
1/2	615 810 487 0	615 810 481 0



FEMALE THREAD	PART NUMBER	
	BSP	NPT
1/4	615 810 488 0	615 810 482 0
3/8	615 810 489 0	615 810 483 0



HOSE CONNECTION	PART NUMBER
6	615 810 530 0
8	615 810 531 0
10	615 810 532 0
13	615 810 533 0



MALE THREAD	PART NUMBER	
	NPT	BSP
1/4	615 810 562 0	615 810 556 0
3/8	615 810 563 0	615 810 557 0
1/2	615 810 564 0	615 810 558 0



FEMALE THREAD	PART NUMBER	
	NPT	BSP
1/4	615 810 565 0	615 810 559 0
3/8	615 810 566 0	615 810 560 0
1/2	615 810 567 0	615 810 561 0



HOSE CONNECTION	PART NUMBER
6	615 810 604 0
8	615 810 605 0
10	615 810 606 0
13	615 810 607 0

EF COUPLING - ISO 6150B 8 mm / Max air flow capacity 43 l/s - 91 cfm
(Delta 0.5 bar / 7.2 psi)

Economical air flow 27 l/s - 57 cfm (Delta 0.2 bar / 2.9 psi)

NIPPLES ISO 6150B 8 mm



MALE THREAD	PART NUMBER	
	NPT	BSP
1/4	615 810 498 0	615 810 492 0
3/8	615 810 499 0	615 810 493 0
1/2	615 810 500 0	615 810 494 0



FEMALE THREAD	PART NUMBER	
	NPT	BSP
1/4	615 810 501 0	615 810 495 0
3/8	615 810 502 0	615 810 496 0
1/2	615 810 503 0	615 810 497 0



HOSE CONNECTION	PART NUMBER
8	615 810 538 0
10	615 810 539 0
13	615 810 540 0
16	615 810 541 0



MALE THREAD	PART NUMBER	
	NPT	BSP
1/4	615 810 574 0	615 810 568 0
3/8	615 810 575 0	615 810 569 0
1/2	615 810 576 0	615 810 570 0



FEMALE THREAD	PART NUMBER	
	NPT	BSP
1/4	615 810 577 0	615 810 571 0
3/8	615 810 578 0	615 810 572 0
1/2	615 810 579 0	615 810 573 0



HOSE CONNECTION	PART NUMBER
8	615 810 611 0
10	615 810 612 0
13	615 810 613 0
16	615 811 133 0

EF COUPLING - ISO6150B 11 mm / Max air flow capacity 76.5 l/s - 162 cfm
(Delta 0.5 bar / 7.2 psi)

Economical air flow 52 l/s - 110 cfm (Delta 0.2 bar / 2.9 psi)

NIPPLES ISO 6150B 11 mm



MALE THREAD	PART NUMBER	
	NPT	BSP
3/8	615 810 509 0	615 810 505 0
1/2	615 810 510 0	615 810 506 0
3/4	615 810 635 0	615 810 634 0



FEMALE THREAD	PART NUMBER	
	NPT	BSP
3/8	615 810 511 0	615 810 507 0
1/2	615 810 512 0	615 810 508 0
3/4	615 810 637 0	615 810 636 0



HOSE CONNECTION	PART NUMBER
10	615 810 546 0
13	615 810 547 0
16	615 810 548 0
19	615 810 549 0



MALE THREAD	PART NUMBER	
	NPT	BSP
3/8	615 810 584 0	615 810 580 0
1/2	615 810 585 0	615 810 581 0
3/4	615 810 692 0	615 810 691 0



FEMALE THREAD	PART NUMBER	
	NPT	BSP
3/8	615 810 586 0	615 810 582 0
1/2	615 810 587 0	615 810 583 0
3/4	615 810 694 0	615 810 693 0



HOSE CONNECTION	PART NUMBER
10	615 810 618 0
13	615 810 619 0
16	615 810 620 0
19	615 810 621 0

EF COUPLING - ASIA 7.5mm: Japan, China, India

EF COUPLING - ASIA 7.5 mm / Max air flow capacity 34 l/s - 72 cfm
(Delta 0.5 bar / 7.2 psi)

Economical air flow 23 l/s - 48.7 cfm (Delta 0.2 bar / 2.9 psi)

NIPPLES ASIA 7.5 mm



MALE THREAD		PART NUMBER
in.		R
1/4		615 810 656 0
3/8		615 810 657 0
1/2		615 810 658 0



FEMALE THREAD		PART NUMBER
in.		R
1/4		615 810 659 0
3/8		615 810 660 0
1/2		615 810 661 0



HOSE CONNECTION		PART NUMBER
mm		
6		615 810 871 0
8		615 810 862 0
10		615 810 863 0
13		615 810 864 0



MALE THREAD		PART NUMBER
in.		R
1/4		615 810 681 0
3/8		615 810 682 0
1/2		615 810 683 0



FEMALE THREAD		PART NUMBER
in.		R
1/4		615 810 684 0
3/8		615 810 685 0
1/2		615 810 687 0



HOSE CONNECTION		PART NUMBER
mm		
6		615 810 697 0
8		615 810 688 0
10		615 810 689 0
13		615 810 690 0

SAFETY COUPLINGS

EURO 7.6 mm / Max air flow capacity 34 l/s - 72 cfm (Delta 0.5 bar / 7.2 psi)

Economical air flow 22 l/s - 47 cfm (Delta 0.2 bar / 2.9 psi)



HOSE CONNECTION		PART NUMBER
		BSP
6		615 811 166 0
8		615 811 167 0
10		615 811 168 0
12,5		615 811 169 0



MALE THREAD		PART NUMBER
in.		BSP
1/4		615 811 170 0
3/8		615 811 171 0
1/2		615 811 172 0



FEMALE THREAD		PART NUMBER
in.		BSP
1/4		615 811 174 0
3/8		615 811 175 0
1/2		615 811 176 0

EURO 10.4 mm / Max air flow capacity 62 l/s - 134 cfm (Delta 0.5 bar / 7.2 psi)

Economical air flow 40.7 l/s - 86.2 cfm (Delta 0.2 bar / 2.9 psi)



HOSE CONNECTION		PART NUMBER
		BSP
10		615 811 184 0
13		615 811 185 0
16		615 811 186 0



MALE THREAD		PART NUMBER
in.		BSP
1/4		615 811 187 0
3/8		615 811 188 0
1/2		615 811 189 0



FEMALE THREAD		PART NUMBER
in.		BSP
1/2		615 811 190 0



CLAW COUPLINGS

Economical air flow 280 l/s - 593 cfm



MALE THREAD	PART NUMBER	
	NPT	BSP
3/8	615 810 907 0	615 810 903 0
1/2	615 810 908 0	615 810 904 0
3/4	615 810 909 0	615 810 905 0
1	615 810 910 0	615 810 906 0



FEMALE THREAD	PART NUMBER	
	NPT	BSP
3/8	615 810 915 0	615 810 911 0
1/2	615 810 916 0	615 810 912 0
3/4	615 810 917 0	615 810 913 0
1	615 810 918 0	615 810 914 0



HOSE CONNECTION	PART NUMBER	
	US Universal	DIN Standard 3489
1/4 (6.5mm)	-	615 810 919 0
3/8 (10mm)	615 810 927 0	615 810 920 0
1/2 (13mm)	615 810 928 0	615 810 921 0
5/8 (16mm)	-	615 810 922 0
3/4 (19mm)	615 810 929 0	615 810 923 0
1 (25.4mm)	615 810 930 0	615 810 924 0

Couplings

QUICK RELEASE COUPLINGS - EURO SERIES: EUROPE

EURO 7.6mm / Max air flow capacity 34 l/s - 72 cfm (Delta 0.5 bar / 7.2 psi)
Economical air flow 19 l/s - 40 cfm (Delta 0.2 bar / 2.9 psi)

MALE THREAD	PART NUMBER
1/4	615 811 072 0
3/8	615 811 073 0
1/2	615 811 074 0

FEMALE THREAD	PART NUMBER
1/4	615 811 075 0
3/8	615 811 076 0
1/2	615 811 077 0

HOSE CONNECTION	PART NUMBER
6	615 811 078 0
8	615 811 079 0
10	615 811 080 0
13	615 811 081 0



EURO 10.4mm / Max air flow capacity 57 l/s - 121 cfm (Delta 0.5 bar / 7.2 psi)
Economical air flow 37 l/s - 78 cfm (Delta 0.2 bar / 2.9 psi)

MALE THREAD	PART NUMBER
1/4	615 811 082 0
3/8	615 811 083 0
1/2	615 811 084 0

FEMALE THREAD	PART NUMBER
1/4	615 811 085 0
3/8	615 811 086 0
1/2	615 811 087 0

HOSE CONNECTION	PART NUMBER
6	615 811 088 0
8	615 811 089 0
10	615 811 090 0
13	615 811 091 0



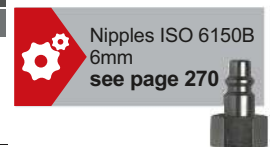
QUICK RELEASE COUPLINGS - ISO 6150B MIL-C4109: NORTH AMERICA, FRANCE, ITALY

ISO 6150B 6mm / Max air flow capacity 15 l/s - 32 cfm (Delta 0.5 bar / 7.2 psi)
Economical air flow 11 l/s - 23.3 cfm (Delta 0.2 bar / 2.9 psi)

MALE THREAD	PART NUMBER
1/4	615 811 042 0
3/8	615 811 043 0
1/2	615 811 044 0

FEMALE THREAD	PART NUMBER
1/4	615 811 045 0
3/8	615 811 046 0
1/2	615 811 047 0

HOSE CONNECTION	PART NUMBER
6	615 811 048 0
8	615 811 049 0
10	615 811 050 0
13	615 811 051 0

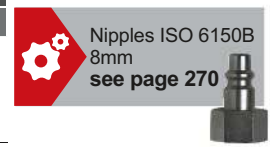


ISO 6150B 8mm / Max air flow capacity 30 l/s - 63 cfm (Delta 0.5 bar / 7.2 psi)
Economical air flow 20 l/s - 42 cfm (Delta 0.2 bar / 2.9 psi)

MALE THREAD	PART NUMBER
1/4	615 811 052 0
3/8	615 811 053 0
1/2	615 811 054 0

FEMALE THREAD	PART NUMBER
1/4	615 811 055 0
3/8	615 811 056 0
1/2	615 811 057 0

HOSE CONNECTION	PART NUMBER
6	615 811 058 0
8	615 811 059 0
10	615 811 060 0
13	615 811 061 0



ISO 6150B 11mm / Max air flow capacity 60 l/s - 127 cfm (Delta 0.5 bar / 7.2 psi)
Economical air flow 40 l/s - 85 cfm (Delta 0.2 bar / 2.9 psi)

MALE THREAD	PART NUMBER
1/4	615 811 062 0
3/8	615 811 063 0
1/2	615 811 064 0

FEMALE THREAD	PART NUMBER
1/4	615 811 065 0
3/8	615 811 066 0
1/2	615 811 067 0

HOSE CONNECTION	PART NUMBER
10	615 811 068 0
13	615 811 069 0
16	615 811 070 0
19	615 811 071 0



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QUICK RELEASE COUPLINGS - ASIA 7.5MM: JAPAN, CHINA, INDIA

ASIA 7.5mm / Max air flow capacity 17 l/s - 36 cfm (Delta 0.5 bar / 7.2 psi)
 Economical air flow 11 l/s - 23.3 cfm (Delta 0.2 bar / 2.9 psi)



MALE THREAD	PART NUMBER
in.	R
1/4	615 811 032 0
3/8	615 811 033 0
1/2	615 811 034 0



FEMALE THREAD	PART NUMBER
in.	R
1/4	615 811 035 0
3/8	615 811 036 0
1/2	615 811 037 0



HOSE CONNECTION	PART NUMBER
mm	
6	615 811 038 0
8	615 811 039 0
10	615 811 040 0
13	615 811 041 0



Safety Instructions

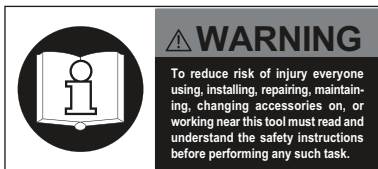
General Safety Instructions for the Operation of Power Tools

The goal of Desoutter is to produce tools that help the operator work safely and efficiently.

The most important safety device for this or any other tool is the operator. Care and good judgement are the best protection against injury.

All possible hazards cannot be covered here, but we have tried to highlight some of the important ones.

Individuals should look for and obey Caution, Warning and Danger signs placed on tools and displayed in the workplace. Operators should read and follow safety instructions packed with each tool. For a copy of these instructions, contact your local Desoutter representative.



Learn how each tool works. Even if you have previously used similar tools, carefully check out each tool before you use it. Get the 'feel' of it and know its capabilities, limitations, potential hazards, how it operates and how it stops.

All tools are designed to operate at a line pressure of 6.3 bar +/- 0.15bar in accordance with ISO2787, 8NTC1.2.

Sound levels +/- 3dB(A)* are measured in accordance with EN ISO15744. Vibration values* are measured in accordance with ISO8662 & ISO28927.

*These declared values were obtained by laboratory type testing in accordance with the stated standards and are suitable for comparison with the declared values of other tools tested in accordance with the same standards. These declared values are not adequate for use in risk assessments and values measured in individual work places may be higher. The actual exposure values and risk of harm experienced by an individual user are unique and depend upon the way the user works, the workpiece and the workstation design, as well upon the exposure time and the physical condition of the user.

We, Desoutter, cannot be held liable for the consequences of using the declared values, instead of values reflecting the actual exposure, in an individual risk assessment in a work place situation over which we have no control.

Tools are CE marked to comply with European Machinery Directive.

Specifications subject to change without prior notice.

Further occupational health and safety information can be obtained from the following web sites:

<http://www.osha.gov> (USA) <http://europe.osha.eu.int> (Europe).



COMPRESSED AIR HAZARDS

- Air under pressure can cause injury. Never point an air hose at yourself or anyone else. Never blow your clothes free of dust with compressed air. Always direct exhaust air away from yourself and others in the work area.
- Always check for damaged or loose hoses and fittings before using an air tool, and replace if necessary. Whipping hoses can cause serious injury.
- Disconnect the tool from the air supply when not in use, before changing accessories, setting the torque, or when making repairs.
- Do not exceed rated air pressure to increase the output of the tool. This could cause injury and shorten tool life.
- Do not assemble quick coupler on the tool. Vibration can cause breakage resulting in a whipping air hose. Instead, use quick couplers on the end of a short leader hose.
- When universal twist couplings are used, lock pins must be installed to prevent accidental hose disconnection.
- Air tools are not intended for use in explosive atmospheres and are not insulated for contact with electric power sources.



ELECTRICAL HAZARDS

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adaptor plugs with earthed (grounded) power tools and equipment. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded metal surfaces. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- Do not expose electric power tools and equipment to wet conditions.
- Do not operate power tools in explosive atmospheres. Power tools create sparks which may ignite dust, fumes or flammable liquids.
- Have electric power tools and equipment serviced by a qualified repair person using only identical replacement parts.



PROJECTILE HAZARDS

- Always wear impact resistant eye and face protection when involved with or near the operation or repair of tools.



BREATHING HAZARDS

- Proper breathing protection must be worn when working with materials, which produce airborne particles.



NOISE HAZARDS

- Hearing loss can result from prolonged exposure to excessive sound levels.
- Use hearing protection as recommended by your employer or Occupational Health and Safety Regulations.



VIBRATION HAZARDS

- Repetitive work motions, awkward positions, and exposure to vibration may be harmful to your hands and arms.
- If numbness, tingling, pain or whitening of the skin occurs, stop using tool and consult a physician.



ENTANGLEMENT HAZARDS

- To reduce the risk of injury from entanglement, do not wear loose clothing when using rotating accessories.



ADDITIONAL HAZARDS

- Slip/Trip/Fall is a major cause of serious injury or death. Beware of excessive hose/cord left on the walking or work surface.
- Operators and maintenance personnel must be physically fit to perform job tasks, and handle the bulk, weight and power of the tool.
- Deburring tools should be used to reduce the risk of cuts and abrasions due to burrs.
- Wear gloves to protect hands from sharp edges.

Safety Instructions

Specific Safety Instructions for Power Tool Groups

In addition to the General Safety Instructions, the following are safety instructions and warnings that apply to the safe operation of specific power tool groups.



COMPRESSION TOOLS

- To reduce the risk of injury always keep hands and fingers away from yoke and moving jaws, sets or dies. If possible, hold the tool body with both hands.
- Inspect the yoke daily for cracks. Injury may result if a cracked yoke fails during use.
- All yokes have a life limitation based on cycles and riveting force. This tool and its accessories must not be modified.



DRILLS & TAPPERS

- Keep away from rotating bit and chuck. You can become cut or burned if you come into contact with the drill bit or tap, chips/swarf, or work surface.
- Use intermittent drill feed pressure to avoid long shaved chips/swarf.
- The drill bit or tap can suddenly bind and cause the workpiece or tool to rotate, causing arm and shoulder injuries.
- It is recommended that side handles are used for operator comfort and safety on high torque drilling applications above 4Nm (3 lbft) on straight case tools and 10Nm (7.4 lbft) on pistol grip drills. Drills with a chuck capacity larger than 10mm (3/8») should always be used with a side handle.



PERCUSSIVE TOOLS

(Riveting Hammers, Air Scribe)

- All chisels, rivet sets and other associated accessories should be checked for cracks, excessive wear, or other physical damage before each use. Accessories that show signs of damage should be replaced immediately.
- Never use a tool without the proper accessory retainer.



PULSE TOOLS

- Never use hand sockets or accessories. Use only impact sockets and accessories in good condition. Sockets in poor condition reduce impact power and could also shatter, resulting in personal injury.
- When using a universal joint, never operate the tool off the work. It may run too fast and cause the joint to be thrown from the tool.
- Always use the simplest hook up possible. Long springy extension bars and adaptors absorb impact power and could break loose resulting in personal injury. Instead, use deep sockets wherever possible.
- For tools using the pin and o-ring socket retainer, use the o-ring to securely retain the socket pin or use a one-piece retainer ring to retain the socket.
- Serious injury can result from overtorqued or under-torqued fasteners, which can break, or loosen and separate. Released assemblies can become projectiles. Assemblies requiring a specific torque must be checked using a torque meter.

NOTE: So-called 'click' torque wrenches do not check for potentially dangerous over-torqued conditions.



ANGLE WRENCHES

- Never use hand sockets or accessories. Use only power drive sockets and accessories.
- To reduce the risk of injury, always support the handle securely in the direction opposite of the spindle rotation to minimize torque reaction.



ACCESSORIES

- Always use accessories of correct size and design for the tool. Tool and accessories must not be modified in any way.
- Never use a tool without the proper accessory retainer.
- Do not use a tool or attachment for a purpose not intended by the manufacturer.



OTHER TOOLS

(e.g. Screwdrivers, Shears, Saws, etc.)

- Specific instructions/warnings affecting this group of tools are contained in product-specific documents accompanying each product.



ABRASIVE TOOLS

- Before grinding, test grinding wheel by briefly running tool at full throttle. Be sure to use a barrier (such as under a heavy work table) to protect yourself from possible broken wheel parts.
- Never mount a grinding wheel on a sander.
- Never use a grinding wheel rated at a speed lower than the air grinder speed.
- All grinding wheels and polishing/sanding accessories should be checked for cracks or other damage before mounting and use.
- Always use the recommended wheel guard to prevent injury when performing grinding operations. If a guard has withstood wheel or disk breakage, it must be replaced.
- Position a guard between the grinding wheel or disc and the operator.
- Use barriers to protect others from fragments and grinding sparks.
- Make sure grinding wheels are mounted according to manufacturer's specifications: always use correct mounting flanges.
- Never tamper with or remove a speed governor from a tool to make it run faster. Periodically check tool speed with a tachometer.

For complete safety instructions, please see the documentation provided with each tool.

Index (Model search)

Vibration level (m/s²) - Noise level (dB(A))

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MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927		NOISE LEVEL	SOUND LEVEL
			a	K		
			m/s ²	m/s ²	ISO 15744 dB(A)	dB(A)
4734	4734	205	3	22	77	
05-X-80000	258984	199	<2.5		76	
2A89-A-1300	1225434	94	<2.5		64	
2A89-A-1300	1223154	94	<2.5		64	
2A89-A-400	1225694	94	<2.5		64	
2A89-A-400	1223314	94	<2.5		64	
2A89-A-700	1225514	94	<2.5		64	
2A89-A-700	1223234	94	<2.5		64	
2H16-L-160/500-B18	1434264	184	<2.5		76	
2H16-L-90/250-B18	1434344	184	<2.5		76	
Air Line Network		263				
Air Motors		258				
ALPHA D1	615 935 140 0	129				
ALPHA D16	615 935 142 0	129				
ALPHA D5	615 935 141 0	129				
ASD - Automatic screw dispenser		165				
Auto Feed Drills - AFD		256				
Automatic Drilling Unit - Seti-Tec		170				
AV101	128534	261				
Balancers		162				
CP0214ANBEL	T012343	189	<2.5		90	
CP0214ANFEL	T018671	189	<2.5		90	
CP0214ANGEL	T018672	189	<2.5		90	
CP0214ANPEL	T019138	189	<2.5		90	
CP0214CELEL	T012344	189	<2.5		90	
CP0214CENEL	T018677	189	<2.5		90	
CP0214ENBEL	T018678	189	<2.5		96	
CP0214ENFEL	T018163	189	<2.5		96	
CP0214ENGEL	T018164	189	<2.5		90	
CP0214ENPEL	T018997	189	<2.5		96	
CP0214FALEL	T013152	189	<2.5		90	
CP0214FANEL	T018430	189	<2.5		90	
CP0214FAXEL	T022528	189	<2.5		90	
CP0214KETEL	T023475	189	<2.5		90	
CP0214SETEL	T023474	189	<2.5		90	
CP0341CUDEL	T022512	189	<2.5		90	
CP0341CUNEL	T022493	189	<2.5		90	
CP0351ASGEL	T007783	189	<2.5		96	
CP0351ASKEL	T007773	189	<2.5		96	
CP0351ASVEL	T009582	189	<2.5		96	
CP0351-CABH-DY	T020475	192	<2.5		96	
CP0351CUDEL	T008955	189	<2.5		90	
CP0351CUNEL	T007772	189	<2.5		90	
CP0351ESGEL	T012602	189	<2.5		96	
CP0351ESKEL	T012603	189	<2.5		96	
CP0351ESREL	T012604	189	<2.5		96	
CP0351ESVEL	T012605	189	<2.5		96	
CP0351FUDEL	T012608	189	<2.5		90	
CP0351PU	205 146 721 4	192	<2.5		96	
CP4444-1	205 147 938 4	194	4	1.6	98	109
CP-4444-RURAB	T022961	194	18.9	9.1	94	
CP-4444-RUSAB	T022962	194	13.9	5.7	94	
CP-4444-RUTAB	T022963	194	28.8	10.2	96	
CP-4447-RUSAB	T022965	194	14.3	4.7	96	
CP-4447-RUTAB	T022912	194	12.6	4.5	92	
CP-4447-RUVAB	T022964	194	10.0	4.8	92	
CP-4450-2	T025189	194	10.2	5.4	94	
CP-4450-3	T025190	194	10.1	4.2	94	
CP-4450-4	T025191	194	12.0	6.5	95	
CP-4475-3	T025241	194	14.5	6.5	95	
CP-4475-4	T025242	194	11.1	4.7	95	
CP-4475-6	T025243	194				

MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927		NOISE LEVEL	SOUND LEVEL
			a	K		
			m/s ²	m/s ²	ISO 15744 dB(A)	dB(A)
Customized solutions		137				
CVI3 Function	615 932 690 0	27				
CVI3 Vision	615 932 691 0	27				
CVIC II-H2	615 932 677 0	63				
CVIC II-H4	615 932 679 0	63				
CVIC II-L2	615 932 676 0	63				
CVIC II-L4	615 932 678 0	63				
CVIL II	615 932 680 0	52				
CVIL II M	615 932 682 0	56				
CVIL II S	615 932 683 0	56				
CVIR II	615 932 681 0	50				
CVIR II H4	615 932 685 0	48				
D144-T-3300	1273234	261	<2.5		76	
D172-L	615 170 520 0	261				
D53-100	615 810 705 0	148				
D53-100 X/Y AXLE	615 397 878 0	152				
D53-1000	615 811 664 0	150				
D53-1000XL	615 811 665 0	150				
D53-100S	615 810 710 0	148				
D53-100S X/Y AXLE	615 397 883 0	152				
D53-12	615 810 701 0	148				
D53-12 X/Y AXLE	615 397 875 0	152				
D53-12S	615 810 707 0	148				
D53-12S X/Y AXLE	615 397 880 0	152				
D53-150	615 811 658 0	150				
D53-150XL	615 811 659 0	150				
D53-25	615 810 702 0	148				
D53-25 X/Y AXLE	615 397 876 0	152				
D53-25S	615 810 708 0	148				
D53-25S X/Y AXLE	615 397 881 0	152				
D53-25X	615 810 703 0	148				
D53-300	615 811 660 0	150				
D53-300XL	615 811 661 0	150				
D53-5	615 810 700 0	148				
D53-5 X/Y AXLE	615 397 874 0	152				
D53-50	615 810 704 0	148				
D53-50 X/Y AXLE	615 397 877 0	152				
D53-500	615 811 662 0	150				
D53-500XL	615 811 663 0	150				
D53-50S	615 810 709 0	148				
D53-50S X/Y AXLE	615 397 882 0	152				
D53-5S	615 810 706 0	148				
D53-5S X/Y AXLE	615 397 879 0	152				
D57	408903	160				
D57X	408913	160				
D58	408923	160				
D59	408933	160				
Delta 1D	615 935 101 0	119				
Delta 6D	615 935 102 0	119				
Delta 7D	615 935 103 0	119				
Delta Cart		134				
Delta QC Software		135				
Delta Wrench 150	615 165 772 0	122				
Delta Wrench 150 ZigBee	615 165 801 0	125				
Delta Wrench 150 Wlan	615 165 782 0	124				
Delta Wrench 150-A	615 165 776 0	122				
Delta Wrench 150-A Short	615 165 767 0	122				
Delta Wrench 150-A Short Wlan	615 165 789 0	124				
Delta Wrench 150-A Wlan	615 165 786 0	124				
Delta Wrench 150-A ZigBee	615 165 806 0	125				
Delta Wrench 150-A ZigBee Short	615 165 810 0	125				

MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927		NOISE LEVEL	SOUND LEVEL
			a	K		
			m/s ²	m/s ²	ISO 15744 dB(A)	dB(A)
			<2.5		76	
			11	3.8	76	



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Index (Model search)

Vibration level (m/s²) - Noise level (dB(A))

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MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927		NOISE LEVEL ISO 15744 dB(A)	SOUND LEVEL dB(A)
			a m/s ²	K m/s ²		
Delta Wrench 30 Wlan	615 165 781 0	124				
Delta Wrench 30 ZigBee	615 165 800 0	125				
Delta Wrench 30-A	615 165 775 0	122				
Delta Wrench 30-A ZigBee	615 165 805 0	125				
Delta Wrench 30-A Wlan	615 165 785 0	124				
Delta Wrench 400	615 165 773 0	122				
Delta Wrench 400 Wlan	615 165 783 0	124				
Delta Wrench 400 ZigBee	615 165 802 0	125				
Delta Wrench 400-A	615 165 777 0	122				
Delta Wrench 400-A Wlan	615 165 787 0	124				
Delta Wrench 400-A ZigBee	615 165 807 0	125				
Delta Wrench 800	615 165 774 0	122				
Delta Wrench 800 ZigBee	615 165 803 0	125				
Delta Wrench 800 Wlan	615 165 784 0	124				
Delta Wrench 800-A	615 165 778 0	122				
Delta Wrench 800-A Wlan	615 165 788 0	124				
Delta Wrench 800-A ZigBee	615 165 808 0	125				
Digital Rotary transducers - DRT		139				
Digital Static Transducers - DST		132				
DR300-T1000	205 147 480 4	182	<2.5		75	
DR300-T1000-C10	205 147 481 4	182	<2.5		75	
DR300-T1000-QR	205 147 523 4	174	<2.5		75	
DR300-T1000-S5-30	205 147 532 4	176	<2.5		75	
DR300-T1000-S5-360	205 147 556 4	176	<2.5		75	
DR300-T1000-S5-45	205 147 569 4	176	<2.5		75	
DR300-T1000-S5-90	205 147 544 4	176	<2.5		75	
DR300-T1000-S6-360	205 147 605 4	177	<2.5		75	
DR300-T1000-S6-90	205 147 587 4	177	<2.5		75	
DR300-T1000-T5-30	205 147 531 4	176	<2.5		75	
DR300-T1000-T5-360	205 147 555 4	176	<2.5		75	
DR300-T1000-T5-45	205 147 568 4	176	<2.5		75	
DR300-T1000-T5-90	205 147 543 4	176	<2.5		75	
DR300-T1000-T6-360	205 147 604 4	177	<2.5		75	
DR300-T1000-T6-90	205 147 586 4	177	<2.5		75	
DR300-T2000	205 147 483 4	182	<2.5		75	
DR300-T20000	205 147 495 4	182	<2.5		75	
DR300-T20000-C8	205 147 496 4	182	<2.5		75	
DR300-T2000-C8	205 147 484 4	182	<2.5		75	
DR300-T2000-QR	205 147 524 4	174	<2.5		75	
DR300-T2000-S5-30	205 147 534 4	176	<2.5		75	
DR300-T2000-S5-360	205 147 558 4	176	<2.5		75	
DR300-T2000-S5-45	205 147 572 4	176	<2.5		75	
DR300-T2000-S5-90	205 147 546 4	176	<2.5		75	
DR300-T2000-S6-360	205 147 608 4	177	<2.5		75	
DR300-T2000-T5-30	205 147 533 4	176	<2.5		75	
DR300-T2000-T5-360	205 147 557 4	176	<2.5		75	
DR300-T2000-T5-45	205 147 571 4	176	<2.5		75	
DR300-T2000-T5-90	205 147 545 4	176	<2.5		75	
DR300-T2000-T6-360	205 147 607 4	177	<2.5		75	
DR300-T2000-T6-90	205 147 589 4	177	<2.5		75	
DR300-T2000-THD-90	205 176 043 0	177	<2.5		75	
DR300-T3000-C8	205 147 487 4	182	<2.5		75	
DR300-T3000-QR	205 147 525 4	174	<2.5		75	
DR300-T3000-S5-30	205 147 536 4	176	<2.5		75	
DR300-T3000-S5-360	205 147 560 4	176	<2.5		75	
DR300-T3000-S5-45	205 147 575 4	176	<2.5		75	
DR300-T3000-S5-90	205 147 548 4	177	<2.5		75	
DR300-T3000-S6-360	205 147 611 4	177	<2.5		75	
DR300-T3000-S6-90	205 147 593 4	177	<2.5		75	
DR300-T3000-SHD-90	205 176 045 0	177	<2.5		75	
DR300-T3000-T5-30	205 147 535 4	176	<2.5		75	
DR300-T3000-T5-360	205 147 559 4	176	<2.5		75	

MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927		NOISE LEVEL ISO 15744 dB(A)	SOUND LEVEL dB(A)
			a m/s ²	K m/s ²		
DR300-T3000-T5-45	205 147 574 4	176	<2.5		75	
DR300-T3000-T5-90	205 147 547 4	177	<2.5		75	
DR300-T3000-T6-360	205 147 610 4	176	<2.5		75	
DR300-T3000-T6-90	205 147 592 4	177	<2.5		75	
DR300-T4500	205 147 489 4	182	<2.5		75	
DR300-T4500-C8	205 147 490 4	182	<2.5		75	
DR300-T4500-QR	205 147 526 4	174	<2.5		75	
DR300-T4500-S5-30	205 147 538 4	176	<2.5		75	
DR300-T4500-S5-360	205 147 562 4	176	<2.5		75	
DR300-T4500-S5-45	205 147 578 4	176	<2.5		75	
DR300-T4500-S5-90	205 147 550 4	176	<2.5		75	
DR300-T4500-S6-360	205 147 614 4	177	<2.5		75	
DR300-T4500-S6-90	205 147 596 4	177	<2.5		75	
DR300-T4500-T5-30	205 147 537 4	176	<2.5		75	
DR300-T4500-T5-45	205 147 577 4	176	<2.5		75	
DR300-T4500-T5-360	205 147 561 4	176	<2.5		75	
DR300-T4500-T5-90	205 147 549 4	176	2.6	1.4	75	
DR300-T4500-T6-360	205 147 613 4	177	<2.5		75	
DR300-T4500-T6-90	205 147 595 4	177	<2.5		75	
DR300-T550	205 147 477 4	182	<2.5		75	
DR300-T5500	205 147 492 4	182	<2.5		75	
DR300-T5500-C8	205 147 493 4	182	<2.5		75	
DR300-T5500-QR	205 147 527 4	174	<2.5		75	
DR300-T5500-S5-30	205 147 540 4	176	<2.5		75	
DR300-T5500-S5-360	205 147 564 4	176	<2.5		75	
DR300-T5500-S5-45	205 147 581 4	176	<2.5		75	
DR300-T5500-S5-90	205 147 552 4	176	2.6	1.4	75	
DR300-T5500-S6-360	205 147 617 4	177	<2.5		75	
DR300-T5500-S6-90	205 147 599 4	177	<2.5		75	
DR300-T5500-T5-30	205 147 539 4	176	<2.5		75	
DR300-T5500-T5-360	205 147 563 4	176	<2.5		75	
DR300-T5500-T5-45	205 147 580 4	176	<2.5		75	
DR300-T5500-T5-90	205 147 551 4	176	<2.5		75	
DR300-T5500-T6-360	205 147 616 4	177	<2.5		75	
DR300-T5500-T6-90	205 147 598 4	177	<2.5		77	
DR300-T550-C10	205 147 478 4	182	<2.5		77	
DR300-T550-QR	205 147 522 4	174	<2.5		77	
DR300-T550-S5-45	205 147 566 4	176	<2.5		77	
DR300-T550-S6-360	205 147 602 4	177	<2.5		75	
DR300-T550-S6-90	205 147 584 4	177	<2.5		75	
DR300-T550-T5-45	205 147 565 4	176	<2.5		75	
DR300-T550-T6-360	205 147 601 4	177	<2.5		77	
DR300-T550-T6-90	205 147 583 4	177	<2.5		77	
DR300-T900-SHD-90	205 176046 0	177	<2.5		75	
DR300-T900-THD-90	205 176 044 0	177	<2.5		75	
DR350-P1000	205 147 355 4	180	<2.5		77	
DR350-P1000-C10	205 147 244 4	180	<2.5		77	
DR350-P1000-QR	205 147 981 4	174	<2.5		75	
DR350-P2000	205 147 356 4	180	<2.5		77	
DR350-P20000	205 147 359 4	180	<2.5		75	
DR350-P20000-C8	205 147 252 4	180	<2.5		75	
DR350-P2000-C8	205 147 246 4	180	<2.5		75	
DR350-P3000	205 147 357 4	180	<2.5		75	
DR350-P3000-C8	205 147 248 4	180	<2.5		75	
DR350-P3000-QR	205 147 528 4	174	<2.5		75	
DR350-P4500	205 147 384 4	180	<2.5		75	
DR350-P4500-C8	205 147 382 4	180	<2.5		75	
DR350-P550	205 147 354 4	180	<2.5		75	
DR350-P5500	205 147 358 4	180	<2.5		75	
DR350-P5500-C8	205 147 250 4	180	<2.5		75	
DR350-P5500-QR	205 147 984 4	174	<2.5		75	
DR350-P55000	205 147 359 4	180	<2.5		75	

MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927		NOISE LEVEL ISO 15744 dB(A)	SOUND LEVEL dB(A)
			a m/s ²	K m/s ²		
DR300-T3000-T5-45	205 147 574 4	176	<2.5		75	
DR300-T3000-T5-90	205 147 547 4	177	<2.5		75	
DR300-T3000-T6-360	205 147 610 4	176	<2.5		75	
DR300-T3000-T6-90	205 147 592 4	177	<2.5		75	
DR300-T4500	205 147 489 4	182	<2.5		75	
DR300-T4500-C8	205 147 490 4	182	<2.5		75	
DR300-T4500-QR	205 147 526 4	174	<2.5		75	
DR300-T4500-S5-30	205 147 538 4	176	<2.5		75	
DR300-T4500-S5-360	205 147 562 4	176	<2.5		75	
DR300-T4500-S5-45	205 147 578 4	176	<2.5		75	
DR300-T4500-S5-90	205 147 550 4	176	<2.5		75	
DR300-T4500-S6-360	205 147 614 4	177	<2.5		75	
DR300-T4500-S6-90	205 147 596 4	177	<2.5		75	
DR300-T4500-T5-30	205 147 537 4	176	<2.5		75	
DR300-T4500-T5-45	205 147 577 4	176	<2.5		75	
DR300-T4500-T5-360	205 147 561 4	176	<2.5		75	
DR300-T4500-T5-90	205 147 549 4	176	2.6	1.4	75	
DR300-T4500-T6-360	205 147 613 4	177	<2.5		75	
DR300-T4500-T6-90	205 147 595 4	177	<2.5		75	
DR300-T550	205 147 477 4	182	<2.5		75	
DR300-T5500	205 147 492 4	182	<2.5		75	
DR300-T5500-C8	205 147 493 4	182	<2.5		75	
DR300-T5500-QR	205 147 527 4	174	<2.5		75	
DR300-T5500-S5-30	205 147 540 4	176	<2.5		75	
DR300-T5500-S5-360	205 147 564 4	176	<2.5		75	
DR300-T5500-S5-45	205 147 581 4	176	<2.5		75	
DR300-T5500-S5-90	205 147 552 4	176	2.6	1.4	75	
DR300-T5500-S6-360	205 147 617 4	177	<2.5		75	
DR300-T5500-S6-90	205 147 599 4	177	<2.5		75	
DR300-T5500-T5-30	205 147 539 4	176	<2.5		75	
DR300-T5500-T5-360	205 147 563 4	176	<2.5		75	
DR300-T5500-T5-45	205 147 580 4	176	<2.5		75	
DR300-T5500-T5-90	205 147 551 4	176	<2.5		75	
DR300-T5500-T6-360	205 147 616 4	177	<2.5		75	
DR300-T5500-T6-90	205 147 598 4	177	<2.5		77	
DR300-T550-C10	205 147 478 4	182	<2.5		77	
DR300-T550-QR	205 1					

Index (Model search)

Vibration level (m/s²) - Noise level (dB(A))

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MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927		NOISE LEVEL	SOUND LEVEL
			a	K		
			m/s ²	m/s ²	ISO 15744 dB(A)	dB(A)
DR500-P1000	205 147 660 4	180	<2.5		75	
DR500-P1000-C10	205 147 658 4	180	<2.5		75	
DR500-P1400	205 147 663 4	180	<2.5		75	
DR500-P1400-C10	205 147 661 4	180	<2.5		75	
DR500-P1800	205 147 666 4	180	<2.5		75	
DR500-P1800-C10	205 147 664 4	180	<2.5		75	
DR500-P18500	205 147 678 4	180	<2.5		75	
DR500-P18500-C8	205 147 676 4	180	<2.5		75	
DR500-P2700	205 147 669 4	180	2.6	1.6	75	
DR500-P2700-C8	205 147 667 4	180	2.6	1.6	75	
DR500-P400	205 147 654 4	180	<2.5		75	
DR500-P400-C13	205 147 652 4	180	<2.5		75	
DR500-P4300	205 147 672 4	180	<2.5		75	
DR500-P4300-C8	205 147 670 4	180	<2.5		75	
DR500-P5800	205 147 675 4	180	<2.5		75	
DR500-P5800-C8	205 147 673 4	180	<2.5		75	
DR500-P600	205 147 657 4	180	<2.5		75	
DR500-P600-C13	205 147 655 4	180	<2.5		75	
DR750-P1300	205 147 415 4	180	<2.5		81	
DR750-P1300-C10	1465084	180	<2.5		81	
DR750-P1300-JT1	205 146 662 4	180	<2.5		81	
DR750-P20000	205 147 458 4	180	<2.5		81	
DR750-P20000-C8	205 146 659 4	180	<2.5		81	
DR750-P20000-JT1	205 146 667 4	180	<2.5		81	
DR750-P2700	205 147 416 4	180	<2.5		81	
DR750-P2700-C10	1465094	180	<2.5		81	
DR750-P2700-JT1	205 146 663 4	180	<2.5		81	
DR750-P3300	205 147 455 4	180	<2.5		81	
DR750-P3300-C10	1465104	180	<2.5		81	
DR750-P3300-JT1	205 146 664 4	180	<2.5		81	
DR750-P400	205 147 451 4	180	<2.5		81	
DR750-P400-C13	205 146 658 4	180	<2.5		81	
DR750-P400-JT1	205 146 660 4	180	<2.5		81	
DR750-P4100	205 147 456 4	180	<2.5		81	
DR750-P4100-C8	1465114	180	<2.5		81	
DR750-P6000	205 147 417 4	180	<2.5		81	
DR750-P6000-C8	1465124	180	<2.5		81	
DR750-P6000-JT1	205 146 666 4	180	<2.5		81	
DR750-P750	205 147 452 4	180	<2.5		81	
DR750-P750-C13	1465074	180	<2.5		81	
DR750-P750-JT1	205 146 661 4	180	<2.5		81	
Dust Extraction systems		235				
DWTA 150	615 165 761 0	120				
DWTA 30	615 165 760 0	120				
DWTA 400	615 165 762 0	120				
DWTA Vision 800-A	615 165 788 0	124				
EAB 15-900	615 165 731 0	21	<2.5		<70	
EAB 26-560	615 165 732 0	21	<2.5		<70	
EAB 32-410	615 165 733 0	21	<2.5		<70	
EAB 45-330	615 165 734 0	21	<2.5		<70	
EAB 50-450	615 165 735 0	21	<2.5		<70	
EAB 60-370	615 165 736 0	21	<2.5		<70	
EAB 75-300	615 165 737 0	21	<2.5		<70	
EAB 95-240	615 165 738 0	21	<2.5		<70	
EABA 15-900	615 165 961 0	21	<2.5		<70	
EABA 26-560	615 165 962 0	21	<2.5		<70	
EABA 32-410	615 165 963 0	21	<2.5		<70	
EABA 45-330	615 165 964 0	21	<2.5		<70	
EABA 50-450	615 165 965 0	21	<2.5		<70	
EABA 60-370	615 165 966 0	21	<2.5		<70	
EABA 75-300	615 165 967 0	21	<2.5		<70	
EABA 95-240	615 165 968 0	21	<2.5		<70	

MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927		NOISE LEVEL	SOUND LEVEL
			a	K		
			m/s ²	m/s ²	ISO 15744 dB(A)	dB(A)
EABC 15-900	615 165 841 0	36	<2.5		<70	
EABC 26-560	615 165 842 0	36	<2.5		<70	
EABC 32-410	615 165 843 0	36	<2.5		<70	
EABC 45-330	615 165 844 0	36	<2.5		<70	
EABC 50-450	615 165 845 0	36	<2.5		<70	
EABC 60-370	615 165 846 0	36	<2.5		<70	
EABC 75-300	615 165 847 0	36	<2.5		<70	
EABC 95-240	615 165 848 0	36	<2.5		<70	
EAD105-500	615 165 613 0	31	<2.5		<70	
EAD12-1300-CE10-L47-H10-W22	615 165 828 0	33				
EAD15-900-OE12-L44-H12-W32	615 165 830 0	33				
EAD160-430	615 165 681 0	31	<2.5		<70	
EAD18-900-CE10-L47-H15-W22	615 165 829 0	33				
EAD18-900-OE13-L51-H11-W38	615 165 831 0	33				
EAD200-370	615 165 682 0	31	<2.5		<70	
EAD20-1300	615 165 606 0	31	<2.5		<70	
EAD280-260	615 165 683 0	31	<2.5		<70	
EAD280-370	615 165 684 0	31	<2.5		<70	
EAD28-900-CE13-L62-H15-W30	615 165 832 0	33				
EAD32-900	615 165 607 0	31	<2.5		<70	
EAD440-250	615 165 685 0	31	<2.5		<70	
EAD44-800-CE14-L71-H18-W31	615 165 833 0	33				
EAD50-900	615 165 609 0	31	<2.5		<70	
EAD65-500-CE17-L78-H24-W30	615 165 834 0	33				
EAD680-160	615 165 686 0	31	<2.5		<70	
EAD70-800	615 165 611 0	31	<2.5		<70	
EAD80-650	615 165 612 0	31	<2.5		<70	
ECA115	615 165 106 0	70	<2.5		<70	
ECA125	615 165 188 0	70	<2.5		<70	
ECA15	615 165 192 0	70	<2.5		<70	
ECA150	615 165 189 0	70	<2.5		<70	
ECA20	615 165 100 0	70	<2.5		<70	
ECA200	615 165 190 0	70	<2.5		<70	
ECA30	615 165 101 0	70	<2.5		<70	
ECA40	615 165 102 0	70	<2.5		<70	
ECA60	615 165 103 0	70	<2.5		<70	
ECA70	615 165 104 0	70	<2.5		<70	
ECA90	615 165 105 0	70	<2.5		<70	
ECD120	615 165 097 0	71	<2.5		<70	
ECD20	615 165 093 0	71	<2.5		<70	
ECD30	615 165 094 0	71	<2.5		<70	
ECD5	615 165 068 0	71	<2.5		<70	
ECD50	615 165 095 0	71	<2.5		<70	
ECD70	615 165 096 0	71	<2.5		<70	
ECP100-R	615 165 523 0	68	<2.5		<70	
ECP10L	615 165 201 0	67	<2.5		<70	
ECP10LT	615 165 233 0	67	<2.5		<70	
ECP1500	615 165 524 0	68	<2.5		<70	
ECP190	615 165 399 0	68	<2.5		<70	
ECP190-R	615 165 451 0	68	<2.5		<70	
ECP20L	615 165 202 0	67	<2.5		<70	
ECP20LT	615 165 234 0	67	<2.5		<70	
ECP20S	615 165 203 0	67	<2.5		<70	
ECP2100	615 165 525 0	68	<2.5		<70	
ECP3000	615 165 526 0	68	<2.5		<70	
ECP30S	615 165 204 0	67	<2.5		<70	
ECP3L	615 165 199 0	67	<2.5		<70	
ECP3LT	615 165 231 0	67	<2.5		<70	
ECP4000	615 165 527 0	68	<2.5		<70	
ECP40S	615 165 262 0	67	<2.5		<70	
ECP550	615 165 400 0	68	<2.5		<70	

Index (Model search)

Vibration level (m/s²) - Noise level (dB(A))

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MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927		NOISE LEVEL ISO 15744 dB(A)	SOUND LEVEL dB(A)
			a m/s ²	K m/s ²		
ECP5L	615 165 200 0	67	<2.5		<70	
ECP5L	615 165 200 0	67	<2.5		<70	
ECP5LT	615 165 232 0	67	<2.5		<70	
ECP5LT	615 165 232 0	67	<2.5		<70	
ECP950	615 165 401 0	68	<2.5		<70	
ECP950-R	615 165 453 0	68	<2.5		<70	
ECS06	615 165 442 0	66	<2.5		<70	
ECS06-M20	615 165 454 0	66	<2.5		<70	
ECS10	615 165 444 0	66	<2.5		<70	
ECS10	615 165 458 0	66	<2.5		<70	
ECS16	615 165 459 0	66	<2.5		<70	
ECS16-M20	615 165 460 0	66	<2.5		<70	
ECS2	615 165 443 0	66	<2.5		<70	
ECS2-M20	615 165 455 0	66	<2.5		<70	
ECS4	615 165 445 0	66	<2.5		<70	
ECS4-M20	615 165 456 0	66	<2.5		<70	
ECS7	615 165 446 0	66	<2.5		<70	
ECS7-M20	615 165 457 0	66	<2.5		<70	
ECSA10	615 165 449 0	66	<2.5		<70	
ECSA2	615 165 447 0	66	<2.5		<70	
ECSA7	615 165 448 0	66	<2.5		<70	
ECSF06	615 165 501 0	72	<2.5		<70	
ECSF10	615 165 505 0	72	<2.5		<70	
ECSF16	615 165 506 0	72	<2.5		<70	
ECSF2	615 165 502 0	72	<2.5		<70	
ECSF4	615 165 503 0	72	<2.5		<70	
ECSF7	615 165 504 0	72	<2.5		<70	
EFDA107-510	615 165 862 0	41	<2.5		<70	
EFDA40-55	615 165 858 0	41	<2.5		<70	
EFDA51-100		41	<2.5		<70	
EFDA63-190	615 165 860 0	41	<2.5		<70	
EFDA76-300		41	<2.5		<70	
EFDE43-15	615 165 865 0	40	<2.5		<70	
EFDE43-30	615 165 866 0	40	<2.5		<70	
EFDE43-45	615 165 867 0	40	<2.5		<70	
EFDE43-8	615 165 864 0	40	<2.5		<70	
EFDE51-135	615 165 869 0	40	<2.5		<70	
EFDE51-70	615 165 868 0	40	<2.5		<70	
EFDE60-175	615 165 871 0	40	<2.5		<70	
EFDE60-260	615 165 872 0	40	<2.5		<70	
EFDE60-95	615 165 870 0	40	<2.5		<70	
EFDS43-15	615 165 908 0	40	<2.5		<70	
EFDS43-30	615 165 909 0	40	<2.5		<70	
EFDS43-45	615 165 910 0	40	<2.5		<70	
EFDS43-8	615 165 907 0	40	<2.5		<70	
EFDS51-135	615 165 912 0	40	<2.5		<70	
EFDS51-70	615 165 911 0	40	<2.5		<70	
EFDS60-175	615 165 914 0	40	<2.5		<70	
EFDS60-260	615 165 915 0	40	<2.5		<70	
EFDS60-95	615 165 913 0	40	<2.5		<70	
EID120-660	615 165 677 0	32	<2.5		<70	
EID170-670	615 165 678 0	32	<2.5		<70	
EID20-1200-4Q	615 165 992 0	32	<2.5		<70	
EID20-900-OE12-L31-H14-W38	615 165 835 0	33				
EID25-1200	615 165 614 0	32	<2.5		<70	
EID270-410	615 165 679 0	32	<2.5		<70	
EID28-677-CE13-L45-H15-W30	615 165 837 0	33				
EID32-680-OE14-L34-H18-W40	615 165 836 0	33				
EID32-900	615 165 615 0	32	<2.5		<70	
EID44-1200	615 165 616 0	32	<2.5		<70	
EID65-900	615 165 617 0	32	<2.5		<70	
EID75-800	615 165 618 0	32	<2.5		<70	

MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927		NOISE LEVEL ISO 15744 dB(A)	SOUND LEVEL dB(A)
			a m/s ²	K m/s ²		
ELB 12-600-P	615 165 418 0	17	<2.5		<70	
ELB 2.5-1250-P	615 165 415 0	17	<2.5		<70	
ELB 6-670-P	615 165 440 0	17	<2.5		<70	
ELB 6-900-P	615 165 416 0	17	<2.5		<70	
ELB 8-670-P	615 165 417 0	17	<2.5		<70	
ELC 12-600-P-Z	615 165 704 0	17	<2.5		<70	
ELC 15-480-A-Z	615 165 708 0	17	<2.5		<70	
ELC 30-300-A-Z	615 165 709 0	17	<2.5		<70	
ELC 45-180-A-Z	615 165 710 0	17	<2.5		<70	
ELC 6-1000-P-Z	615 165 701 0	17	<2.5		<70	
ELC 7-360-A-Z	615 165 726 0	17	<2.5		<70	
ELC 7-880-A-Z	615 165 707 0	17	<2.5		<70	
ELC 8-400-P-Z	615 165 702 0	17	<2.5		<70	
ELC 8-800-P-Z	615 165 703 0	17	<2.5		<70	
ELRT025-P4600-10S	615 165 838 0	53	<2.5		<70	
ELRT025-P4600-4Q	615 165 890 0	53	<2.5		<70	
ELS 12-400-P4S	615 165 826 0	17	<2.5		<70	
ELS 12-600-P	615 165 422 0	17	<2.5		<70	
ELS 15-480-A	615 165 629 0	17	<2.5		<70	
ELS 15-480-A4S	615 165 839 0	17	<2.5		<70	
ELS 2.5-1550-P	615 165 419 0	17	<2.5		<70	
ELS 30-300-A	615 165 630 0	17	<2.5		<70	
ELS 45-180-A	615 165 631 0	17	<2.5		<70	
ELS 6-1000-P	615 165 420 0	17	<2.5		<70	
ELS 7-360-A4S	615 165 725 0	17	<2.5		<70	
ELS 7-880-A	615 165 628 0	17	<2.5		<70	
ELS 8-400-P	615 165 605 0	17	<2.5		<70	
ELS 8-400-P4S	615 165 825 0	17	<2.5		<70	
ELS 8-800-P	615 165 421 0	17	<2.5		<70	
EME106-10J	615 165 437 0	13	<2.5		<70	
EME106-20J	615 165 438 0	13	<2.5		<70	
EME24-20 OF	615 165 512 0	13	<2.5		<70	
EME24-20 OF	615 165 512 0	57	<2.5		<70	
EME26-50 OF	615 165 513 0	13	<2.5		<70	
EME26-58 OF	615 165 513 0	57	<2.5		<70	
EME30-80 OF	615 165 514 0	13	<2.5		<70	
EME35-10J	615 165 423 0	57	<2.5		<70	
EME35-20J	615 165 424 0	57	<2.5		<70	
EME36-140 OF	615 165 515 0	57	<2.5		<70	
EME38-10J	615 165 425 0	57	<2.5		<70	
EME38-20J	615 165 426 0	57	<2.5		<70	
EME40-180 OF	615 165 516 0	57	<2.5		<70	
EME44-350 OF	615 165 602 0	57	<2.5		<70	
EME51-10J	615 165 427 0	57	<2.5		<70	
EME51-20J 6	615 165 428 0	57	<2.5		<70	
EME60-10J	615 165 429 0	57	<2.5		<70	
EME60-20J	615 165 430 0	57	<2.5		<70	
EME60-30J	615 165 431 0	57	<2.5		<70	
EME80-10J	615 165 432 0	57	<2.5		<70	
EME80-20J	615 165 433 0	57	<2.5		<70	
EME80-30J	615 165 434 0	57	<2.5		<70	
EME80-40J	615 165 435 0	57	<2.5		<70	
EME80-50J	615 165 436 0	57	<2.5		<70	
EMEL38-20J	615 165 517 0	57	<2.5		<70	
EMEL51-20J	615 165 518 0	57	<2.5		<70	
EMEL60-20J	615 165 519 0	57	<2.5		<70	
EMEL60-30J	615 165 520 0	57	<2.5		<70	
EMEL80-40J	615 165 521 0	57	<2.5		<70	
EPB 17-700-10S	615 165 901 0	20	<2.5		<70	
EPB 17-700-4Q	615 165 905 0	20	<2.5		<70	
EPB 8-1800-10S	615 165 903 0	20	<2.5		<70	
			<2.5		<70	

Index (Model search)

Vibration level (m/s²) - Noise level (dB(A))

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MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927		NOISE LEVEL	SOUND LEVEL
			a	K		
			m/s ²	m/s ²	ISO 15744 dB(A)	dB(A)
EPBA 17-700-10S	615 165 975 0	20	<2.5		<70	
EPBA 17-700-4Q	615 165 976 0	20	<2.5		<70	
EPBA 8-1800-10S	615 165 971 0	20	<2.5		<70	
EPBA 8-1800-4Q	615 165 972 0	20	<2.5		<70	
EPBC 14-900-10S	615 165 979 0	35	<2.5		<70	
EPBC 14-900-4Q	615 165 980 0	35	<2.5		<70	
EPBC 17-700-10S	615 165 902 0	35	<2.5		<70	
EPBC 17-700-4Q	615 165 906 0	35	<2.5		<70	
EPBC 8-1800-10S	615 165 904 0	35	<2.5		<70	
EPBC 8-1800-4Q	615 165 900 0	35	<2.5		<70	
ERAL 1.5-15	615 165 356 0	54	<2.5		<70	
ERAL 1.5-25	615 165 357 0	54	<2.5		<70	
ERAL2.30	615 165 362 0	54	<2.5		<70	
ERAL2.40	615 165 363 0	54	<2.5		<70	
ERAL2-60	615 165 364 0	54	<2.5		<70	
ERAL2-80	615 165 365 0	54	<2.5		<70	
ERAL2-80 SQ1/2	615 165 406 0	54	<2.5		<70	
ERAL4-110	615 165 385 0	54	<2.5		<70	
ERAL4-120	615 165 386 0	54	<2.5		<70	
ERAL4-140	615 165 387 0	54	<2.5		<70	
ERAL4-170	615 165 388 0	54	<2.5		<70	
ERAL4-225	615 165 389 0	54	<2.5		<70	
ERAL4-90	615 165 384 0	54	<2.5		<70	
ERAL6-135	615 165 390 0	54	<2.5		<70	
ERAL6-170	615 165 441 0	54	<2.5		<70	
ERAL6-280	615 165 391 0	54	<2.5		<70	
ERAL6-350	615 165 392 0	54	<2.5		<70	
ERAL6-480	615 165 393 0	54	<2.5		<70	
ERD5J	615 165 060 0	54	<2.5		<70	
ERDL 1.5-12	615 165 366 0	54	<2.5		<70	
ERDL 1.5-20	615 165 367 0	54	<2.5		<70	
ERDL 1.5-30	615 165 368 0	54	<2.5		<70	
ERDL2-40	615 165 369 0	54	<2.5		<70	
ERDL2-50	615 165 370 0	54	<2.5		<70	
ERDL4-135	615 165 395 0	54	<2.5		<70	
ERDL4-60	615 165 407 0	54	<2.5		<70	
ERDL4-80	615 165 394 0	54	<2.5		<70	
ERDL6-170	615 165 396 0	54	<2.5		<70	
ERDL6-220	615 165 397 0	54	<2.5		<70	
ERDL6-250	615 165 398 0	54	<2.5		<70	
ERP1000	615 165 886 0	49	<2.5		<75	
ERP10L	615 165 195 0	30	<2.5		<70	
ERP10L	615 165 195 0	54	<2.5		<70	
ERP10LT	615 165 229 0	30	<2.5		<70	
ERP10LT	615 165 229 0	54	<2.5		<70	
ERP1700	615 165 887 0	49	<2.5		<75	
ERP20L	615 165 196 0	30	<2.5		<70	
ERP20L	615 165 196 0	54	<2.5		<70	
ERP20LT	615 165 230 0	30	<2.5		<70	
ERP20LT	615 165 230 0	54	<2.5		<70	
ERP20S	615 165 197 0	30	<2.5		<70	
ERP20S	615 165 197 0	54	<2.5		<70	
ERP250	615 165 883 0	49	<2.5		<75	
ERP30S	615 165 198 0	30	<2.5		<70	
ERP30S	615 165 198 0	54	<2.5		<70	
ERP3L	615 165 193 0	30	<2.5		<70	
ERP3L	615 165 193 0	54	<2.5		<70	
ERP3LT	615 165 227 0	30	<2.5		<70	
ERP3LT	615 165 227 0	54	<2.5		<70	
ERP40S	615 165 263 0	30	<2.5		<70	
ERP40S	615 165 263 0	54	<2.5		<70	
ERP500	615 165 88		<2.5		<70	

MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927		NOISE LEVEL	SOUND LEVEL
			a	K		
			m/s ²	m/s ²	ISO 15744 dB(A)	dB(A)
ERP5L	615 165 194 0	30	<2.5		<70	
ERP5L	615 165 194 0	54	<2.5		<70	
ERP5LT	615 165 228 0	30	<2.5		<70	
ERP5LT	615 165 228 0	54	<2.5		<70	
ERP750	615 165 885 0	49	<2.5		<75	
ERS12	615 165 690 0	51	<2.5		<70	
ERS12-M20	615 165 693 0	51	<2.5		<70	
ERS2	615 165 688 0	51	<2.5		<70	
ERS2-M20	615 165 691 0	51	<2.5		<70	
ERS6	615 165 689 0	51	<2.5		<70	
ERS6-M20	615 165 692 0	51	<2.5		<70	
ERSA12	615 165 699 0	51	<2.5		<70	
ERSA2	615 165 697 0	51	<2.5		<70	
ERSA27	615 165 917 0	51	<2.5		<70	
ERSA6	615 165 698 0	51	<2.5		<70	
ERSF12	615 165 696 0	51	<2.5		<70	
ERSF2	615 165 694 0	51	<2.5		<70	
ERSF6	615 165 695 0	51	<2.5		<70	
ESP C 110 V	615 165 484 0	82				
ESP C 220 V	615 165 480 0	82				
ESP C LT 110 V	615 165 485 0	82				
ESP C LT 220 V	615 165 481 0	82				
ESP CA 110V	615 165 486 0	82				
ESP CA 220V	615 165 482 0	82				
ESP CA LT 110V	615 165 487 0	82				
ESP CA LT 220V	615 165 483 0	82				
ESP1	615 932 635 0	79				
ESP1-A	615 932 662 0	79				
ESP1-HT	615 932 637 0	79				
ESP1-HT PLUS	615 932 707 0	79				
FAS3000	205 146 677 4	98				
H410-N-150	1302534	107	<2.5		82	
H410-N-350	1302454	107	<2.5		82	
H410-N-500	1302374	107	<2.5		82	
H410-N-60	1302794	107	<2.5		82	
H410-N-90	1302614	107	<2.5		82	
K1120B3CWY	615 170 171 0	211	<2.5		90	
K1180-9	615 170 246 0	203	<2.5		95	101
K145B6	615 170 002 0	211	<2.5		75	
K160B6	615 170 003 0	211	<2.5		77	
K160B6Y	615 170 173 0	211	<2.5		77	
K190B3CW	615 170 005 0	211	<2.5		82	
K190B3CWY	615 170 172 0	211	<2.5		82	
K190B4	615 170 004 0	211	<2.5		82	
K320-7	615 170 033 0	201	<2.5		75	
K320-9	615 170 142 0	205	2.4	1.2	75	
K325-7	615 170 034 0	201	4.3		74	
K325-9	615 170 141 0	205	2.8	1.2	74	
K331-7	615 170 035 0	201	2.5		80	
K331-9	615 170 140 0	205	2.2	0.9	80	
K340-7	615 170 036 0	201	<2.5		78	
K340-9	615 170 139 0	205	4.3	2.1	78	
K345B8	615 170 009 0	211	<2.5		82	
K345B8Y	615 170 178 0	211	<2.5		82	
K360B6	615 170 010 0	211	<2.5		82	
K360B6Y	615 170 177 0	211	<2.5		82	
K360B9	615 170 521 0	211	<2.5		76	
K615-7	615 170 104 0	203	<2.5		76	
K615-9	615 170 155 0	203	<2.5	1.3	76	
K619-7	615 170 105 0	203	<2.5		76	
K619-9	615 170 153 0	203	<2.5		76	
			2.6	1.5	81	



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Vibration level (m/s²) - Noise level (dB(A))

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MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927		NOISE LEVEL	SOUND LEVEL
			a	K		
			m/s ²	m/s ²	ISO 15744 dB(A)	dB(A)
K624-9	615 170 151 0	203	<2.5		81	
K628-7	615 170 107 0	203	<2.5		85	
K628-9	615 170 150 0	203	2.5	1.3	85	
K912-300-7	615 170 108 0	203	3.6	1.3	74	
K912-300-9	615 170 169 0	203	3.0	1.3	74	
K912-500-7	615 170 109 0	203	3.3	1.7	74	
K912-500-9	615 170 170 0	203	3.0	1.4	74	
K912-7	615 170 110 0	203	<2.5		76	
K912-9	615 170 157 0	203	<2.5		76	
K912C3	615 170 111 0	209	<2.5		81	
K912C4	615 170 112 0	209	<2.5		78	
K912D3	615 170 113 0	209	<2.5		77	
K915-7	615 170 114 0	203	<2.5		81	
K915-9	615 170 156 0	203	<2.5		81	
K915C25	615 170 115 0	209	<2.5		77	
K915C3	615 170 116 0	209	2.7	1.1	78	
K918-7	615 170 117 0	203	<2.5		80	
K918-9	615 170 154 0	203	<2.5		80	
K918C3	615 170 118 0	209	5.3	3.1	77	
K922-7	615 170 119 0	203	<2.5		81	
K922-9	615 170 152 0	203	<2.5		81	
KA16060A	615 170 449 0	229	3.3	1.6	77	
KA16060B	615 170 453 0	229	3.3	1.6	77	
KA16060BY	615 170 451 0	229	3.3	1.6	76	
KA16075A	615 170 448 0	229	3.3	1.6	80	
KA16075B	615 170 452 0	229	3.3	1.6	79	
KA16075BY	615 170 450 0	229	3.3	1.6	78	
KA16085A	615 170 468 0	229	3.4	1.7	80	
KA16085B	615 170 469 0	229	3.4	1.7	80	
KA16100B6FVK	615 170 470 0	219	5.2	1.5	82	
KA16120-9	615 170 443 0	203	5.0	3.1	82	
KA16120A	615 170 435 0	229	2.9	1.5	85	
KA16120A45	615 170 455 0	215	7.8	4.6	82	
KA16120A45VK	615 170 456 0	215	4.7	1.1	79	
KA16120A5	615 170 437 0	217	7.1	2.2	82	
KA16120A5VK	615 170 438 0	217	4.7	2.0	79	
KA16120B	615 170 445 0	229	2.9	1.5	85	
KA16120B45	615 170 457 0	215	7.8	4.6	82	
KA16120B45VK	615 170 458 0	215	4.4	2.5	79	
KA16120B5	615 170 439 0	217	7.5	2.5	82	
KA16120B5VK	615 170 454 0	217	4.7	1.1	79	
KA16120BY	615 170 447 0	229	2.9	1.5	86	
KA16120H5	615 170 444 0	217	7.9	2.3	82	
KA16120H5K	615 170 434 0	217	7.8	3.0	79	
KA16135C4FK	615 170 441 0	215	16.7	5.0	82	
KA16135C4S	615 170 446 0	229	4.8	3.6	85	
KA26060BY	615 170 481 0	233	<2.5		88	
KA26065B9V	615 170 477 0	223	5.4	1.0	93	
KA26065BV	615 170 480 0	233	<2.5		89	
KA26065H9V	615 170 490 0	223	5.4	1.0	93	
KA26077B7Y	615 170 478 0	221	5.3	1.1	84	
KA26077BY	615 170 482 0	233	3.6	0.8	84	
KA26085B7V	615 170 476 0	221	5.7	1.1	87	
KA26085BV	615 170 479 0	233	<2.5		87	
KA26085H7V	615 170 489 0	221	5.7	1.1	87	
KA3.135-7	615 170 515 0	201	3.9		81	
KA3.21-7	615 170 517 0	227	<2.5		80	
KA3.36-7	615 170 516 0	227	3.1		80	
KA3.36A	615 170 518 0	227	<2.5		80	
KA309-9	615 170 266 0	205	2.8	1.6	76	
KA309C	615 170 203 0	227	8.1	1.3	76	
KA309G	615 170 203 0	227	8.1	1.3	76	
KA312-7	615 170 037 0	201	2.9	0.9	75	
KA312-9	615 170 149 0	205	3.2	2.0	75	
KA312-9FE	615 170 205 0	205	3.2	2.0	78	
KA312E7	615 170 039 0	201	3.4	1.4	77	
KA312E9	615 170 147 0	205	3.5	1.8	77	
KA312EG	615 170 040 0	227	2.7	1.2	76	
KA312G	615 170 038 0	227	<2.5		77	
KA313C4	615 170 049 0	213	12	4.0	79	
KA313EC4	615 170 050 0	213	15	6.0	78	
KA318-9	615 170 461 0	205	4.1	2.1	77	
KA318C3	615 170 041 0	213	14.7	5.8	81	
KA318EC3	615 170 045 0	213	18	6.5	78	
KA318G	615 170 310 0	227	2.5	1.3	77	
KA320-7	615 170 043 0	201	4.7	2.4	78	
KA320-9	615 170 148 0	205	4.3	2.1	78	
KA320-9FE	615 170 206 0	205	4.3	2.1	80	
KA320C2	615 170 488 0	213	19.8	6.6	78	
KA320C3	615 170 042 0	213	19.8	6.6	78	
KA320E7	615 170 047 0	201	5.1	2.3	80	
KA320E9	615 170 146 0	205	5.7	3.0	80	
KA320EC2	615 170 487 0	213	16	4.9	80	
KA320EC3	615 170 046 0	213	16	4.9	80	
KA320EG	615 170 048 0	227	3.6	2.6	77	
KA320G	615 170 044 0	227	2.8	1.2	77	
KA613-9	615 170 135 0	205	3.7	1.4	85	
KA613C4	615 170 137 0	213	9.3	3.0	85	
KA613E9	615 170 136 0	205	4.9	2.6	83	
KA613EC4	615 170 138 0	213	7.2	2.4	84	
KA9020A	615 170 096 0	231	<2.5		80	
KA9020B	615 170 097 0	231	<2.5		80	
KA9030A	615 170 098 0	231	2.6	1.3	83	
KA9030B	615 170 099 0	231	2.6	1.3	83	
KA9030BY	615 170 309 0	231	2.6	1.3	82	
KC061000	205 146 638 4	199	<2.5		71	
KC1600	615 170 315 0	199	<2.5		71	
KC1600-T	615 170 313 0	199	<2.5		71	
KC318-9	615 170 196 0	205	3.4	1.5	72	
KC320-7	615 170 029 0	201	<2.5		74	
KC320-9	615 170 027 0	205	3.1	1.9	74	
KC325-7	615 170 030 0	201	<2.5		78	
KC325-9	615 170 145 0	205	3.0	1.4	78	
KC331-7	615 170 031 0	201	2.8	2.0	77	
KC340-7	615 170 032 0	201	2.8	2.0	77	
KC340-9	615 170 143 0	205	3.9	1.8	77	
KC615-7	615 170 123 0	203	<2.5		74	
KC615-9	615 170 163 0	203	3.4	2.0	74	
KC619-7	615 170 124 0	203	<2.5		74	
KC619-9	615 170 161 0	203	3.1	1.8	74	
KC624-7	615 170 125 0	203	<2.5		82	
KC624-9	615 170 159 0	203	<2.5		82	
KC624-9RT	615 170 290 0	203	<2.5		82	
KC628-7	615 170 126 0	203	<2.5		85	
KC628-9	615 170 158 0	203	<2.5		82	
KC9010-7	615 170 120 0	225	<2.5		84	
KC9010-9	615 170 168 0	225	<2.5		82	
KC9035-7	615 170 121 0	225	<2.5		82	
KC9035-9	615 170 167 0	225	<2.5		82	
KC9060-7	615 170 122 0	225	<2.5		83	
KC9060-9	615 170 166 0	225	<2.5		83	
KC912-7	615 170 127 0	203	<2.5		75	
KC912-9	615 170 165 0	203	<2.5		75	
KC912D3	615 170 491 0	209	<2.5		81	
KC915-7	615 170 128 0	203	<2.5		80	
KC915-9	615 170 128 0	203	3.9	2.2	80	



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Vibration level (m/s²) - Noise level (dB(A))

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MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927		NOISE LEVEL	SOUND LEVEL
			a	K		
			m/s ²	m/s ²	ISO 15744 dB(A)	dB(A)
KC918-7	615 170 129 0	203	<2.5		81	
KC918-9	615 170 162 0	203	2.9	1.8	81	
KC922-7	615 170 130 0	203	<2.5		81	
KC922-9	615 170 160 0	203	3.5	2.4	81	
KC331-9	615 170 144 0	205	3.4	1.5	77	
KL1120A5	615 170 013 0	219	6.8	2.5	84	
KL165B	615 170 011 0	233	<2.5		77	
KL177B7Y	615 170 182 0	221	6.7	2.1	91	
KL185B7	615 170 012 0	221	6.7	2.1	78	
KL360B6C	615 170 337 0	221	<2.5		84	
KL360B6CY	615 170 351 0	221	<2.5		84	
KL360B9Y	615 170 350 0	223	4.0	1.8	85	
KL365B9	615 170 338 0	223	4.6	1.4	87	
KL365B9V	615 170 474 0	223	<2.5		87	
KL377B7	615 170 341 0	221	5.1	1.5	88	
KL377B7V	615 170 472 0	221	<2.5		<70	
MC35-10	615 165 107 0	73	<2.5		<70	
MC35-20	615 165 108 0	73	<2.5		<70	
MC38-10	615 165 109 0	73	<2.5		<70	
MC38-20	615 165 110 0	73	<2.5		<70	
MC51-10	615 165 111 0	73	<2.5		<70	
MC51-20	615 165 112 0	73	<2.5		<70	
Multicombox	615 029 044 0	56				
Multiplus		138				
PL05-10D	615 170 131 0	255	<2.5		80	
PL05-10E	615 170 132 0	255	<2.5		80	
PL05-10F	615 170 133 0	255	<2.5		80	
Posco 500		74				
Posco Vision		75				
PT010-L5000-S4Q	205 146 225 4	116	4.7	2.3	70	
PT010-T5000-S4Q	205 146 227 4	116	3.5	1.6	73	
PT014-L6000-S4Q	205 146 226 4	116	4.7	2.1	73	
PT014-T6000-S4Q	205 146 228 4	116	3.0	2.2	70	
PT025-L4500-S10S	205 147 463 4	116	7.4	4.2	75	
PT025-T4500-S10S	205 147 462 4	116	6.3	3.4	76	
PT028-T9000-I4Q	205 147 789 4	116	4.3	2.9	72	
PT031-L10000-I10S	205 147 466 0	116	4.7	2.1	73	
PT031-T9000-I10S	205 147 467 4	116	5.2	4.5	75	
PT035-T6000-S4Q	205 147 790 4	116	6.1	2.2	74	
PT040-T6000-S10S	205 146 229 4	116	6.3	2.5	77	
PT052-T7000-I10S	205 147 468 4	116	3.7	2.2	80	
PT070-T4000-S13S	205 146 230 4	116	5.8	2.2	82	
PT070-T6000-I13S	205 147 469 4	116	4.9	2.7	48	
PT110-T4500-I13S	205 147 470 4	116	8.1	2.7	79	
PT125-T3500-S13S	205 146 231 4	116	7.2	2.4	79	
PT160-T3500-I13S	205 147 471 4	116	9.3	4.2	79	
PT240-T2800-I19S	205 147 472 4	116	8.9	4.2	81	
PT250-T4000-S19S	205 147 464 4	116	8.5	1.8	80	
PT450-T3000-S19S	205 147 465 4	116	11.2	4.1	85	
PTF012-T6200-S10S	615 172 081 0	114	<2.5		75	
PTF012-T6200-S4Q	615 172 104 0	114	<2.5		75	
PTF012-T6500-S4Q P	615 172 105 0	114	<2.5		79	
PTF020-T6700-I4Q	615 172 101 0	114	<2.5		76	
PTF024-T6500-S10S	615 172 084 0	114	<2.5		79	
PTF024-T6700-I10S	615 172 072 0	114	<2.5		76	
PTF028-T6300-I4Q	615 172 102 0	114	<2.5		79	
PTF028-T6300-S4Q	615 172 106 0	114	<2.5		79	
PTF035-T6300-S10S	615 172 087 0	114	<2.5		79	
PTF035-T6700-I4Q	615 172 103 0	114	<2.5		82	
PTF040-T6300-I10S	615 172 074 0	114	<2.5		79	
PTF056-T6700-I10S	615 172 075 0	114	<2.5		82	
PTF060-T6100-I10S	615 172 07		<2.5		82	

MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927		NOISE LEVEL	SOUND LEVEL
			a	K		
			m/s ²	m/s ²	ISO 15744 dB(A)	dB(A)
PTF060-T6100-S10S	615 172 088 0	114	<2.5		79	
PTF085-T4800-S13S	615 172 089 0	114	3.7	1.5	81	
PTF096-T4600-I13S	615 172 077 0	114	3.4	1.3	79	
PTF130-T4500-S13S	615 172 090 0	114	3.9	1.8	85	
PTF136-T5000-I13S	615 172 078 0	114	<2.5		85	
PTF165-T3400-S13S	615 172 091 0	114	4.9	2.4	83	
PTF172-T3800-I13S	615 172 079 0	114	4.1	2.1	84	
RFD-100-140	145364	186	<2.5		88	
RFD-100-1850	681394	186	<2.5		88	
RFD-100-2800	681214	186	<2.5		90	
RFD-100-330	680244	186	<2.5		88	
RFD-100-500	680164	186	<2.5		88	
RFD-100-60	1457384	186	<2.5		88	
RFD-100-800	680084	186	<2.5		88	
RFD-100-85	1457374	186	<2.5		88	
RFDT-125-140	1445504	186	<2.5		88	
RFDT-125-330	1445674	186	<2.5		88	
RFDT-125-500	1445664	186	<2.5		88	
RFDT-125-60	1445524	186	<2.5		88	
RFDT-125-800	1445654	186	<2.5		88	
RFDT-125-85	1445514	186	<2.5		88	
Routers		206				
S144-T3100	936974	261	<2.5		80	
SB011-AB1600-S4Q	1460644	94	<2.5		69	
SB011-AR1600-S4Q	1460524	94	<2.5		69	
SB015-AB1100-S4Q	1460634	94	<2.5		69	
SB015-AR1100-S4Q	1460514	94	<2.5		69	
SB021-LR1400-S4Q	205 147 508 4	95	<2.5		72	
SB025-AB500-S4Q	1460684	94	<2.5		69	
SB025-AB750-S4Q	1460624	94	<2.5		69	
SB025-AR500-S4Q	1460564	94	<2.5		69	
SB025-AR750-S4Q	1460504	94	<2.5		69	
SB043-LR1050-S4Q	205 147 507 4	95	<2.5		72	
SB047-LR500-S4Q	205 147 506 4	95	<2.5		72	
SBP021-T1600-S4Q	1462154	96	<2.5		73	
SBP021-T2300-S4Q	1462144	96	<2.5		73	
SBP022-T1600-R4Q	1462194	101	<2.5		73	
SBP024-T2300-R4Q	1462184	101	<2.5		73	
SBP043-T1100-S4Q	1462164	96	<2.5		73	
SBP044-T1100-R4Q	1462204	101	<2.5		73	
SBP044-T550-R4Q	1462214	101	<2.5		73	
SBP047-T550-S4Q	1462174	96	<2.5		73	
SC009-L1600-HLT4M	1459644	97	<2.5		73	
SC021-L1400-S90A4H	1459064	104	<2.5		73	
SC021-L1400-S90A4S	1459144	104	<2.5		73	
SC021-L1600-HLT4M	1459614	97	<2.5		73	
SC021-L2000-S90A4H	1459074	104	<2.5		73	
SC021-L2000-S90A4S	1459154	104	<2.5		73	
SC022-L1100-HLT4M	1459654	97	<2.5		73	
SC022-L1400-R90A4S	1459184	106	<2.5		73	
SC022-L550-HLT4M	1459664	97	<2.5		73	
SC024-L2000-R90A4H	1459114	106	<2.5		73	
SC024-L2000-R90A4S	1459194	106	<2.5		73	
SC043-L1100-HLT4M	1459624	97	<2.5		73	
SC043-L950-S90A4H	1459054	104	<2.5		73	
SC043-L950-S90A4S	1459134	104	<2.5		73	
SC044-L500-R90A4H	1459084	106	<2.5		73	
SC044-L500-R90A4S	1459164	106	<2.5		73	
SC044-L950-R90A4H	1459094	106	<2.5		73	
SC044-L950-R90A4S	1459174	106	<2.5		73	
SC047-L500-S90A4H	1459044	104	<2.5		73	
			<2.5		73	

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Vibration level (m/s²) - Noise level (dB(A))

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MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927		NOISE LEVEL	SOUND LEVEL
			a	K		
			m/s ²	m/s ²	ISO 15744 dB(A)	dB(A)
SC047-L550-HLT4M	1459634	97	<2.5		73	
SC2-025-1AM2200-S4Q	205 147 426 4	109	<2.5		71	
SC2-025-2RM2200-S4Q	205 147 440 4	109	<2.5		71	
SC2-025-A2200-R4Q	205 147 276 4	100	<2.5		71	
SC2-025-A2200-S4Q	205 147 269 4	94	<2.5		71	
SC2-025-L2200-R4Q	205 147 290 4	100	<2.5		71	
SC2-025-L2200-S4Q	205 147 283 4	95	<2.5		71	
SC2-035-1AM1500-S4Q	205 147 425 4	109	<2.5		71	
SC2-035-2RM1500-S4Q	205 147 439 4	109	<2.5		71	
SC2-035-A1500-R4Q	205 147 275 4	100	<2.5		71	
SC2-035-A1500-S4Q	205 147 268 4	94	<2.5		71	
SC2-035-L1500-R4Q	205 147 289 4	100	<2.5		71	
SC2-035-L1500-S4Q	205 147 282 4	95	<2.5		71	
SC2-045-1AM1000-S4Q	205 147 424 4	109	<2.5		71	
SC2-045-2RM1000-S4Q	205 147 438 4	109	<2.5		71	
SC2-045-A1000-R4Q	205 147 274 4	100	<2.5		71	
SC2-045-A1000-S4Q	205 147 267 4	94	<2.5		71	
SC2-045-L1000-R4Q	205 147 288 4	100	<2.5		71	
SC2-045-L1000-S4Q	205 147 281 4	95	<2.5		71	
SC2-055-1AM700-S4Q	205 147 423 4	109	<2.5		71	
SC2-055-2RM700-S4Q	205 147 437 4	109	<2.5		71	
SC2-055-A700-R4Q	205 147 273 4	100	<2.5		71	
SC2-055-A700-S4Q	205 147 266 4	94	<2.5		71	
SC2-055-L700-R4Q	205 147 287 4	100	<2.5		71	
SC2-055-L700-S4Q	205 147 280 4	95	<2.5		71	
SC2-065-1AM500-S4Q	205 147 422 4	109	<2.5		71	
SC2-065-2RM500-S4Q	205 147 436 4	109	<2.5		71	
SC2-065-A500-R4Q	205 147 272 4	100	<2.5		71	
SC2-065-A500-S4Q	205 147 265 4	94	<2.5		71	
SC2-065-L500-R4Q	205 147 286 4	100	<2.5		71	
SC2-065-L500-S4Q	205 147 279 4	95	<2.5		71	
SC2P	615 170 077 0	249	4.6	2.6	81	
SC2P14	615 170 083 0	249	4.6	2.6	85	
SC2P8	615 170 089 0	249	4.6	2.6	82	
SC3P	615 170 079 0	249	3.7	2.0	79	
SC3P14	615 170 085 0	249	3.7	2.0	83	
SC3P8	615 170 091 0	249	3.7	2.0	82	
SC4	615 170 081 0	249	5.4	2.8	80	
SC4-14	615 170 087 0	249	5.4	2.8	82	
SC4-8	615 170 093 0	249	5.4	2.8	83	
SC4P	615 170 078 0	249	2.7	1.6	81	
SC4P14	615 170 084 0	249	2.7	1.6	84	
SC4P8	615 170 090 0	249	2.7	1.6	82	
SCBP021-T1600-S4Q	1466364	96	<2.5		73	
SCBP021-T2300-S4Q	1466374	96	<2.5		73	
SCBP043-T1100-S4Q	1466354	96	<2.5		73	
SCBP044-T740-S4Q	1466344	96	<2.5		73	
SCBP047-T550-S4Q	1466334	96	<2.5		73	
SCP009-T1600-HLT4M	1459704	97	<2.5		73	
SCP021-T1600-HLT4M	1459714	97	<2.5		73	
SCP021-T1600-S4Q	1456744	96	<2.5		73	
SCP021-T2300-S4Q	1456734	96	<2.5		73	
SCP022-T1600-R4Q	1456784	101	<2.5		73	
SCP022-T550-HLT4M	1459744	97	<2.5		73	
SCP043-T1100-HLT4M	1459734	97	<2.5		73	
SCP043-T1100-S4Q	1456754	96	<2.5		73	
SCP044-T1100-R4Q	1456794	101	<2.5		73	
SCP044-T550-R4Q	1456804	101	<2.5		73	
SCP047-T550-HLT4M	1459754	97	<2.5		73	
SCP047-T550-S4Q	1456764	96	<2.5		73	
SCPT021-A1600-S4Q	1458934	96	<2.5		73	
SCPT021-A2300-S4Q	1458954	101	<2.5		73	

MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927		NOISE LEVEL	SOUND LEVEL
			a	K		
			m/s ²	m/s ²	ISO 15744 dB(A)	dB(A)
SCPT022-A1600-R4Q	1458954	101	<2.5		73	
SCPT024-A2300-R4Q	1458994	101	<2.5		73	
SCPT043-A1100-S4Q	1458894	96	<2.5		73	
SCPT044-A1100-R4Q	1458914	101	<2.5		73	
SCPT047-A550-S4Q	1458854	96	<2.5		73	
SD023-2RM3500-S4Q	1464324	109	<2.5		73	
SD023-AB3500-R4Q	1462954	100	<2.5		73	
SD023-AB3500-S4Q	1462834	94	<2.5		73	
SD023-AR3500-R4Q	1462894	100	<2.5		73	
SD023-AR3500-S4Q	1462764	94	<2.5		73	
SD023-LB3500-R4Q	1463214	100	<2.5		73	
SD023-LB3500-S4Q	1463094	95	<2.5		73	
SD023-LR3500-R4Q	1463154	100	<2.5		73	
SD023-LR3500-S4Q	1463024	95	<2.5		73	
SD035-1AM2200-S4Q	1464244	109	<2.5		73	
SD035-2RM2200-S4Q	1464314	109	<2.5		73	
SD035-AB2200-R4Q	1462944	100	<2.5		73	
SD035-AB2200-S4Q	1462824	94	<2.5		73	
SD035-AR2200-R4Q	1462884	100	<2.5		73	
SD035-AR2200-S4Q	1462754	94	<2.5		73	
SD035-LB2200-R4Q	1463204	100	<2.5		73	
SD035-LB2200-S4Q	1463084	95	<2.5		73	
SD035-LR2200-R4Q	1463144	100	<2.5		73	
SD035-LR2200-S4Q	1463014	95	<2.5		73	
SD055-1AM1470-S4Q	1464234	109	<2.5		73	
SD055-2RM1470-S4Q	1464304	109	<2.5		73	
SD055-AB1470-R4Q	1462934	100	<2.5		73	
SD055-AB1470-S4Q	1462814	94	<2.5		73	
SD055-AR1470-R4Q	1462874	100	<2.5		73	
SD055-AR1470-S4Q	1462744	94	<2.5		73	
SD055-LB1470-R4Q	1463194	100	<2.5		73	
SD055-LB1470-S4Q	1463074	95	<2.5		73	
SD055-LR1470-R4Q	1463134	100	<2.5		73	
SD055-LR1470-S4Q	1463004	95	<2.5		73	
SD070-LB1100-R90-A4H	1463334	106	<2.5		73	
SD070-LB1100-R90-A4S	1463454	106	<2.5		73	
SD070-LB1100-S90-A4H	1463254	104	<2.5		73	
SD070-LB1100-S90-A4S	1463374	104	<2.5		73	
SD070-LB320-S90-A4H	1463224	104	<2.5		73	
SD070-LB320-S90-A4S	1463344	104	<2.5		73	
SD070-LB510-R90-A4H	1463314	106	<2.5		73	
SD070-LB510-R90-A4S	1463434	106	<2.5		73	
SD070-LB510-S90-A4H	1463234	104	<2.5		73	
SD070-LB510-S90-A4S	1463354	104	<2.5		73	
SD070-LB820-R90-A4H	1463324	106	<2.5		73	
SD070-LB820-S90-A4H	1463244	104	<2.5		73	
SD070-LB820-S90-A4S	1463364	104	<2.5		73	
SD070-LR1100-S90-A4H	1463294	104	<2.5		73	
SD070-LR1100-S90-A4S	1463414	104	<2.5		73	
SD070-LR160-S90-A4S	205 146 705 4	104	<2.5		73	
SD070-LR320-R90-A4H	1463624	106	<2.5		73	
SD070-LR320-R90-A4S	1463664	106	<2.5		73	
SD070-LR320-S90-A4H	1463264	104	<2.5		73	
SD070-LR320-S90-A4S	1463384	104	<2.5		73	
SD070-LR510-S90-A4H	1463274	104	<2.5		73	
SD070-LR510-S90-A4S	1463394	104	<2.5		73	
SD070-LR820-S90-A4S	1463404	104	<2.5		73	
SD072-LB1080-S90-A10S	1463504	104	<2.5		73	
SD072-LR1080-S90-A10S	1463554	104	<2.5		73	
SD075-1AM1100-S4Q	1464224	109	<2.5		73	
SD075-2RM1100-S4Q	1464294	109	<2.5		73	



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Index (Model search)

Vibration level (m/s²) - Noise level (dB(A))

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			a	K		
			m/s ²	m/s ²	ISO 15744 dB(A)	dB(A)
SD075-AB1100-S4Q	1462804	94	<2.5		73	
SD075-AR1100-R4Q	1462864	100	<2.5		73	
SD075-AR1100-S4Q	1462734	94	<2.5		73	
SD075-LA1100-S4	1464604	102	<2.5		73	
SD075-LB1100-R4Q	1463184	100	<2.5		73	
SD075-LB1100-S4Q	1463064	95	<2.5		73	
SD075-LR1100-R4Q	1463124	100	<2.5		73	
SD075-LR1100-S4Q	1462994	95	<2.5		73	
SD095-LB800-S90-A10S	1463494	104	<2.5		73	
SD095-LR800-S90-A10S	1463544	104	<2.5		73	
SD096-LB800-D90-A4S	1465984	107	<2.5		73	
SD097-LB1080-R90-A10S	1463584	106	<2.5		73	
SD097-LR1080-R90-A10S	1463724	106	<2.5		73	
SD100-1AM820-S4Q	1464214	109	<2.5		73	
SD100-2RM820-S4Q	1464284	109	<2.5		73	
SD100-AB510-R4Q	1462904	100	<2.5		73	
SD100-AB820-R4Q	1462914	100	<2.5		73	
SD100-AB820-S4Q	1462794	94	<2.5		73	
SD100-AR510-R4Q	1462844	100	<2.5		73	
SD100-AR820-R4Q	1462854	100	<2.5		73	
SD100-AR820-S4Q	1462724	94	<2.5		73	
SD100-LB510-R4Q	1463164	100	<2.5		73	
SD100-LB820-R4Q	1463174	100	<2.5		73	
SD100-LB820-S4Q	1463054	95	<2.5		73	
SD100-LR510-R4Q	1463104	100	<2.5		73	
SD100-LR820-R4Q	1463114	100	<2.5		73	
SD100-LR820-S4Q	1462984	95	<2.5		73	
SD110-LX450	205 148 131 4	107	<2.5		73	
SD130-LB500-D90-A4S	1465974	107	<2.5		73	
SD130-LB600-R90-A10S	1463574	106	<2.5		73	
SD130-LB600-S90-A10S	1463484	104	<2.5		73	
SD130-LR600-R90-A10S	1463714	106	<2.5		73	
SD130-LR600-S90-A10S	1463534	104	<2.5		73	
SD140-1AM510-S4Q	1464204	109	<2.5		73	
SD140-2RM510-S4Q	1464274	109	<2.5		73	
SD140-AB510-S4Q	1462784	94	<2.5		73	
SD140-AR510-S4Q	1462714	94	<2.5		73	
SD140-LA510-S4	1464584	102	<2.5		73	
SD140-LB510-S4Q	1463044	95	<2.5		73	
SD140-LR510-S4Q	1462974	95	<2.5		73	
SD160-1AM320-S4Q	1464194	109	<2.5		73	
SD160-2RM320-S4Q	1464264	109	<2.5		73	
SD160-AB320-S4Q	1462774	94	<2.5		73	
SD160-AR320-S4Q	1462704	94	<2.5		73	
SD160L-AR320-S4Q	205 147 799 4	102	<2.5		73	
SD160-LB320-S4Q	1463034	95	<2.5		73	
SD160-LR320-S4Q	1462964	95	<2.5		73	
SD209-LB370-R90-A10S	1463564	106	<2.5		73	
SD209-LB370-S90-A10S	1463474	104	<2.5		73	
SD209-LR370-R90-A10S	1463704	106	<2.5		73	
SD209-LR370-S90-A10S	1463524	104	<2.5		73	
SD220-2RM320-S10S	205 147 941 4	103	<2.5		78	
SD220-2RM320-S4Q	205 147 939 4	103	<2.5		78	
SD220-LR320-S10S	205 147 979 4	103	<2.5		78	
SD220-LR320-S4Q 2	205 147 937 4	103	<2.5		78	
SD300-LB250-S90-A10S	1463464	104	<2.5		73	
SD300-LR180-S90-A10S	205 146 704 4	104	<2.5		73	
SD300-LR250-S90-A10S	1463514	104	<2.5		73	
SDP023-T3400-D4Q	1465714	102	<2.5		75	
SDP023-T3400-R4Q	1465644	101	<2.5		75	
SDP023-T3400-S4Q	1465574	96	<2.5		75	
SDP035-T2100-D4Q	1465704	101	<2.5		73	

MODEL	PART NO.	PAGE	VIBRATION LEVEL (3 AXES VALUE) ISO 28927		NOISE LEVEL	SOUND LEVEL
			a	K		
			m/s ²	m/s ²	ISO 15744 dB(A)	dB(A)
SDP035-T2100-R4Q	1465634	101	<2.5		75	
SDP035-T2100-S4Q	1465564	96	<2.5		73	
SDP045-T180-S4Q 205	205 146 706 4	96	<2.5		75	
SDP055-T1400-D4Q	1465694	102	<2.5		75	
SDP055-T1400-R4Q	1465624	101	<2.5		75	
SDP055-T1400-S4Q	1465554	96	<2.5		75	
SDP075-T1050-D4Q	1465684	102	<2.5		75	
SDP075-T1050-R4Q	1465614	101	<2.5		75	
SDP075-T1050-S4Q	1465544	96	<2.5		75	
SDP100-T300-R4Q	1465584	101	<2.5		75	
SDP100-T490-R4Q	1465594	101	<2.5		75	
SDP100-T700-S4Q	1465534	96	<2.5		75	
SDP100-T780-D4Q	1465674	102	<2.5		75	
SDP100-T780-R4Q	1465604	101	<2.5		75	
SDP140-T490-D4Q	1465664	102	<2.5		75	
SDP140-T490-S4Q	1465524	96	<2.5		75	
SDP160-T300-S4Q	1465514	96	<2.5		75	
SDT023-T3500-R4Q	205 147 635 4	101	<2.5		75	
SDT035-T1100-S4Q 205	205 147 623 4	96	<2.5		75	
SDT035-T2200-R4Q	205 147 636 4	101	<2.5		75	
SDT035-T2200-S4Q	1465774	96	<2.5		75	
SDT055-T1470-R4Q	205 147 637 4	101	<2.5		75	
SDT055-T1470-S4Q	1465764	96	<2.5		75	
SDT075-T1100-R4Q	205 147 638 4	101	<2.5		75	
SDT075-T1100-S4Q	1465754	96	<2.5		75	
SDT100-T320-R4Q	205 147 641 4	101	<2.5		75	
SDT100-T510-R4Q	205 147 644 4	101	<2.5		75	
SDT100-T820-R4Q	205 147 639 4	101	<2.5		75	
SDT100-T820-S4Q	1465744	96	<2.5		75	
SDT140-T510-S4Q	1465734	96	<2.5		75	
SDT160-T320-S4Q	1465724	96	<2.5		75	
SH1200-LR215-S90-A13S	205 147 476 4	105	<2.5		<70	
SH150-LR580-S90-A10S	205 147 629 4	105	<2.5		80	
SH2000-LR100-S90-A13S	205 147 801 4	105	<2.5		<70	
SH200-LR550-S90-A10S	205 147 630 4	105	<2.5		80	
SH280-LR350-S90-A10S	205 147 631 4	105	<2.5		80	
SH280-LR80-S90-A10S	205 147 632 4	105	<2.5		80	
SH330-LB330-OE11-CC53	205 147 818 4	108	<2.5			
SH330-LB330-OE11-CC75	205 147 819 4	108	<2.5			
SH330-LB330-OE13-CC53	205 147 820 4	108	<2.5			
SH330-LB330-OE13-CC75	205 147 821 4	108	<2.5			
SH330-LB430-CE13-CC53	205 147 815 4	108	<2.5			
SH410-LB400-CE17-CC68	205 147 817 4	108	<2.5			
SH420-LR190-S90-A13S	205 147 800 4	105	<2.5		80	
SH500-LR330-S90-A13S	205 147 473 4	105	<2.5		80	
SH700-LR225-S90-A13S	205 147 474 4	105	<2.5		80	
SH70-LR1100-S90-A4S	205 147 628 4	105	<2.5		80	
SH850-LR190-S90-A13S	205 147 475 4	105	<2.5		80	
SLB001-L1000-S WS	615 165 705 0	81	<2.5		<70	
SLB003-L1000-S4Q	615 165 625 0	81	<2.5		<70	
SLB003-L230-S4Q	615 165 881 0	81	<2.5		<70	
SLB012-A1000-S4Q	615 165 568 0	81	<2.5		<70	
SLB012-A2000-S4Q	615 165 569 0	81	<2.5		<70	
SLB012-L1000-S4Q	615 165 565 0	81	<2.5		<70	
SLB012-L2000-S4Q	615 165 566 0	81	<2.5		<70	
SLB020-A1000-S4Q	615 165 570 0	81	<2.5		<70	
SLB020-L1000-S4Q	615 165 567 0	81	<2.5		<70	
SLB030-A1000-S4Q	615 165 622 0	81	<2.5		<70	
SLB030-A2000-S4Q	615 165 623 0	81	<2.5		<70	
SLB030-L1000-S4Q	615 165 619 0	81	<2.5		<70	
SLB030-L2000-S4Q	615 165 620 0	81	<2.5		<70	



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			a	K		
			m/s ²	m/s ²	ISO 15744 dB(A)	dB(A)
SLB050-L1000-S4Q	615 165 621 0	81	<2.5		<70	
SLB090-A800-S4Q	615 165 896 0	81	<2.5		<70	
SLB090-L800-S4Q	615 165 892 0	81	<2.5		<70	
SLB120-A550-S4Q	615 165 897 0	81	<2.5		<70	
SLB120-L550-S4Q	615 165 893 0	81	<2.5		<70	
SLC030-F1200-C4Q	615 165 490 0	84	<2.5		<70	
SLC030-L1200-C4Q	615 165 500 0	83	<2.5		<70	
SLC030-L1200-C90A4H	615 165 478 0	83	<2.5		<70	
SLC030-P1200-C4Q	615 165 488 0	84	<2.5		<70	
SLC030-T1200-C4Q	615 165 489 0	84	<2.5		<70	
SLC100-F600-C4Q	615 165 468 0	84	<2.5		<70	
SLC100-L600-C4Q	615 165 466 0	83	<2.5		<70	
SLC100-L600-C90A4H	615 165 479 0	83	<2.5		<70	
SLC100-P600-C4Q	615 165 462 0	84	<2.5		<70	
SLC100-T600-C4Q	615 165 464 0	84	<2.5		<70	
SLC150-F320-C4Q	615 165 469 0	84	<2.5		<70	
SLC150-L320-C4Q	615 165 467 0	83	<2.5		<70	
SLC150-P320-C4Q	615 165 463 0	84	<2.5		<70	
SLC150-T320-C4Q	615 165 465 0	84	<2.5		<70	
SMRD60H	615 170 288 0	249	4.7	1.7	80	
SMRD60HC	615 170 281 0	249	4.7	1.7	82	
SMRD60HV	615 170 282 0	249	4.7	1.7	85	
SP3	615 170 198 0	253	12.6	3.4	80	
SP3P	615 170 197 0	253	5.1	2.3	81	
SPXR30H	615 170 281 0	253	8.3	3.2	76	
SV3	615 170 066 0	251	10.7	3.8	80	
SV3-14	615 170 070 0	251	10.7	3.8	82	
SV3-8	615 170 074 0	251	10.7	3.8	78	
SV3P	615 170 067 0	251	10.6	4.0	81	
SV3P14	615 170 071 0	251	10.6	4.0	81	
SV3P8	615 170 075 0	251	7.8	1.3	78	
SV4P	615 170 068 0	251	8.3	3.0	83	
SV4P14	615 170 072 0	251	8.3	3.0	81	
SV4P8	615 170 076 0	251	7.5	3.0	80	
SXOAR1	615 170 233 0	247	6.3	3.0	76	
SXOAR1C	615 170 237 0	247	6.3	3.4	76	
SXOAR1V	615 170 235 0	247	6.3	3.2	82	
SXOAT1	615 170 234 0	247	7.6	3.0	77	
SXOAT1C	615 170 238 0	247	5.3	2.7	78	
SXOAT1V	615 170 236 0	247	5.3	2.7	81	
SXRA35	615 170 218 0	243	5.6	2.1	76	
SXRA35C	615 170 224 0	243	3.8	1.7	78	
SXRA35V	615 170 221 0	243	3.8	1.7	85	
SXRA50	615 170 219 0	243	4.7	2.4	76	
SXRA50C	615 170 225 0	243	3.2	1.4	78	
SXRA50V	615 170 222 0	243	3.2	1.4	85	
SXRA60	615 170 220 0	243	5.0	2.3	76	
SXRA60C	615 170 226 0	243	3.2	1.4	78	
SXRA60V	615 170 223 0	243	4.6	2.9	85	
SXRB35	615 170 209 0	243	3.8	1.7	76	
SXRB35C	615 170 215 0	243	3.4	1.3	78	
SXRB35V	615 170 212 0	243	3.8	1.7	85	
SXRB50	615 170 300 0	243	4.3	1.5	76	
SXRB50C	615 170 210 0	243	4.3	1.5	76	
SXRB50C	615 170 216 0	243	3.9	1.4	78	
SXRB50V	615 170 213 0	243	3.2	1.7	85	
SXRB60	615 170 211 0	243	3.4	1.7	76	
SXRB60C	615 170 317 0	243	3.4	1.7	76	
SXRB60C	615 170 217 0	243	5.7	2.9	78	
SXRB60H	615 170 355 0	245	5.1	2.5	76	
SXRB60H	615 170 356 0	245	5.1	2.5	76	
SXRB60HC	615 170 357 0	245	5.1	2.5	76	
SXRB60HV	615 170 359 0	245	5.6	1.9	85	
SXRB60V	615 170 214 0	243	4.4	1.5	85	
SXRC60	615 170 462 0	243	3.4	1.7	76	
SXRC60H	615 170 465 0	245	5.1	2.5	76	
SXRC60C	615 170 463 0	243	5.7	2.9	78	
SXRC60HC	615 170 466 0	245	4.4	1.9	78	
SXRC60HV	615 170 467 0	245	5.6	1.9	85	
SXRC60V	615 170 464 0	243	4.4	1.5	85	
T500-P400	205 147 995 4	184	<2.5		76	
T500-P500	205 147 996 4	184	<2.5		76	
Tool holsters - DTH..		164				
TRA100 1600	615 810 099 0	156				
TRA100 2100	615 810 100 0	156				
TRA100 2100 P	615 811 682 0	157				
TRA100 2100 P2	615 811 683 0	157				
TRA100 2600	615 810 101 0	156				
TRA12 1150	615 810 089 0	156				
TRA12 1600	615 810 090 0	156				
TRA12 1600 UNI P	615 811 694 0	157				
TRA12 1600 UNI P2	615 811 695 0	157				
TRA12 2100	615 810 091 0	156				
TRA200 1600	615 810 102 0	156				
TRA200 2100	615 810 103 0	156				
TRA200 2100 P	615 811 688 0	157				
TRA200 2100 P2	615 811 689 0	157				
TRA200 2600	615 810 104 0	156				
TRA25 1150	615 810 092 0	156				
TRA25 1600	615 810 093 0	156				
TRA25 2100	615 810 094 0	156				
TRA25 2100 UNI P	615 811 670 0	157				
TRA25 2100 UNI P2	615 811 671 0	157				
TRA25 2600	615 810 095 0	156				
TRA50 1600	615 810 096 0	156				
TRA50 2100	615 810 097 0	156				
TRA50 2100 UNI P	615 811 676 0	157				
TRA50 2100 UNI P2	615 811 677 0	157				
TRA50 2600	615 810 098 0	156				
TWINCV13	615 932 697 0	27				
V100	129504	261				
Vacuum & Color identification		183				
VP2-X	671094	261	1.3	1.1	70	

Desoutter Tools follows a policy of continuous product improvement. Specifications and descriptions are thus subject to change without notice.

Check the online ecatalog at www.desouttertools.com for the latest product information.

Notes

Conversion table

LENGTH

1 in.	=	0.0254 m
1 m	=	39.3701 in / 3.2808 ft
1 mm	=	0.0393701 in

WEIGHT

1 lb	=	0.4536 kg
1 kg	=	2.2046 lb

TORQUE

1 kpm	=	9.8067 Nm
1 ft-lb	=	1.3558 Nm
1 in-lb	=	0.1130 Nm
1 Nm	=	0.1020 kpm
1 Nm	=	0.7376 ft-lbs

POWER

1 kpm/s	=	9.8067 W
1 hp	=	745.7 W
1 hp	=	101.972 kpm/s

AIR PRESSURE

1 bar	=	100 kPa
1 kp/cm ² (at)	=	98.0665 kPa
1 psi	=	6.8948 kPa
1 kPa	=	0.0101972 kp/cm ² (at)

AIR FLOW

1 m ³ /min	=	16.6667 l/s
1 cfm	=	0.4720 l/s
1m ³ /h	=	0.2778 l/s
1 l/s	=	2.1189 cfm



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RightWay

The key to finding a better way



Desoutter RightWay focuses on six key areas that play an important part in the performance of your production lines.

■ PRODUCTIVITY

Remove bottlenecks to raise workstation productivity and overall line performance.

■ QUALITY

Improve the quality of final goods and reduce quality-related costs by implementing advanced error-proofing solutions that detect and fix defects at the workstation.

■ ERGONOMICS

Reduce work-related musculoskeletal disorders to improve operator morale, cut absenteeism and minimize operator turnover.

■ SAFETY

Fewer on-the-job injuries and the costs associated with lost time and medical costs.

■ ENERGY

Fight rising energy costs by adopting energy-efficient best practices and technologies.

■ PLANNING

Help you accelerate process improvement projects by providing your planning department with valuable resources and expertise.



Desoutter RightWay uses a unique **4-step methodology** to identify workable improvements to your production line. Our solutions combine real-world insights gathered directly from your production line with our unmatched expertise in tool systems for your industry.

1 ANALYSE ON THE FACTORY FLOOR

Desoutter RightWay begins with a 6-point on-site audit of your entire line, workstations and operator ergonomics. Our expert visits the line with you gathering information and observations about your requirements in the six key domains: productivity, quality, ergonomics, safety, energy consumption and process planning.

2 PROPOSE DEMONSTRATING FEASIBILITY

Using the results of our Desoutter RightWay audit, the data you provide and our best practices in similar applications, we design and test a custom solution that is perfectly suited to your requirements. In addition, we demonstrate the solution in real-world conditions to show you first-hand how it resolves your issues and concerns.

3 FOLLOW-UP IMPLEMENTATION AND SUPPORT

Finally, we work with your line engineers to organize the smooth and timely deployment of the new tool system. Over the life of the system, we will continue to monitor performance and use this feedback to make any adjustments that may be required as your line evolves. We also provide all the preventive maintenance and fixed-price servicing called for in the ROI calculations.

4 PROVE PROVE THE PAYBACK

Based on the proposed solution, we calculate the return on investment and the payback in terms of the six domains mentioned earlier. We also propose error-proofing solutions, calculate duty cycles and analyze joint quality for assembly applications.



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